

# ORCHARD HEIGHTS

## R-10 SUBDIVISION & WETLANDS APPLICATION

### FOR WORK WITHIN UPLANDS REVIEW AREA

380 TUNXIS ROAD—WEST HARTFORD, CONNECTICUT

**PROPERTY OF:** ORCHARD HEIGHTS DEVELOPERS, LLC  
380 TUNXIS ROAD  
WEST HARTFORD, CONNECTICUT 06107

**DEVELOPER:** ORCHARD HEIGHTS DEVELOPERS, LLC  
380 TUNXIS ROAD  
WEST HARTFORD, CONNECTICUT 06107  
(860) 716-9922  
CONTACT: JEFF WEBSTER

**LAND SURVEYING-LAND PLANNING:** THE BONGIOVANNI GROUP, INC.  
170 PANE ROAD  
NEWINGTON, CONNECTICUT 06111  
(860) 666-0134



THE BONGIOVANNI GROUP, INC.  
LAND SURVEYORS

**CIVIL ENGINEERING:** WESTON & SAMPSON  
273 DIVIDEND ROAD  
ROCKY HILL, CONNECTICUT 06109  
(860) 235-9809

Weston & Sampson

273 Dividend Road, Rocky Hill, CT 06067  
860.513.1473 800.SAMPSON  
www.westonandsampson.com

#### DRAWING INDEX

SHEET 1	COVER SHEET
SHEET 2	BOUNDARY & TOPOGRAPHIC SURVEY
SHEET 3	SUBDIVISION MAP
SHEET 4	UTILITIES & IMPROVEMENTS MAP
SHEET 5	EROSION & SEDIMENT CONTROL PLAN
SHEET 6	ROADWAY PLAN & PROFILE
SHEET 7	LANDSCAPING PLAN
SHEET 8	STORMWATER DETAILS
SHEET 9	STORMWATER DETAILS
SHEET 10	SANITARY SEWER & SITE DETAILS
SHEET 11	EROSION & SEDIMENT CONTROL DETAILS
SHEET 12	EROSION & SEDIMENT CONTROL NOTES

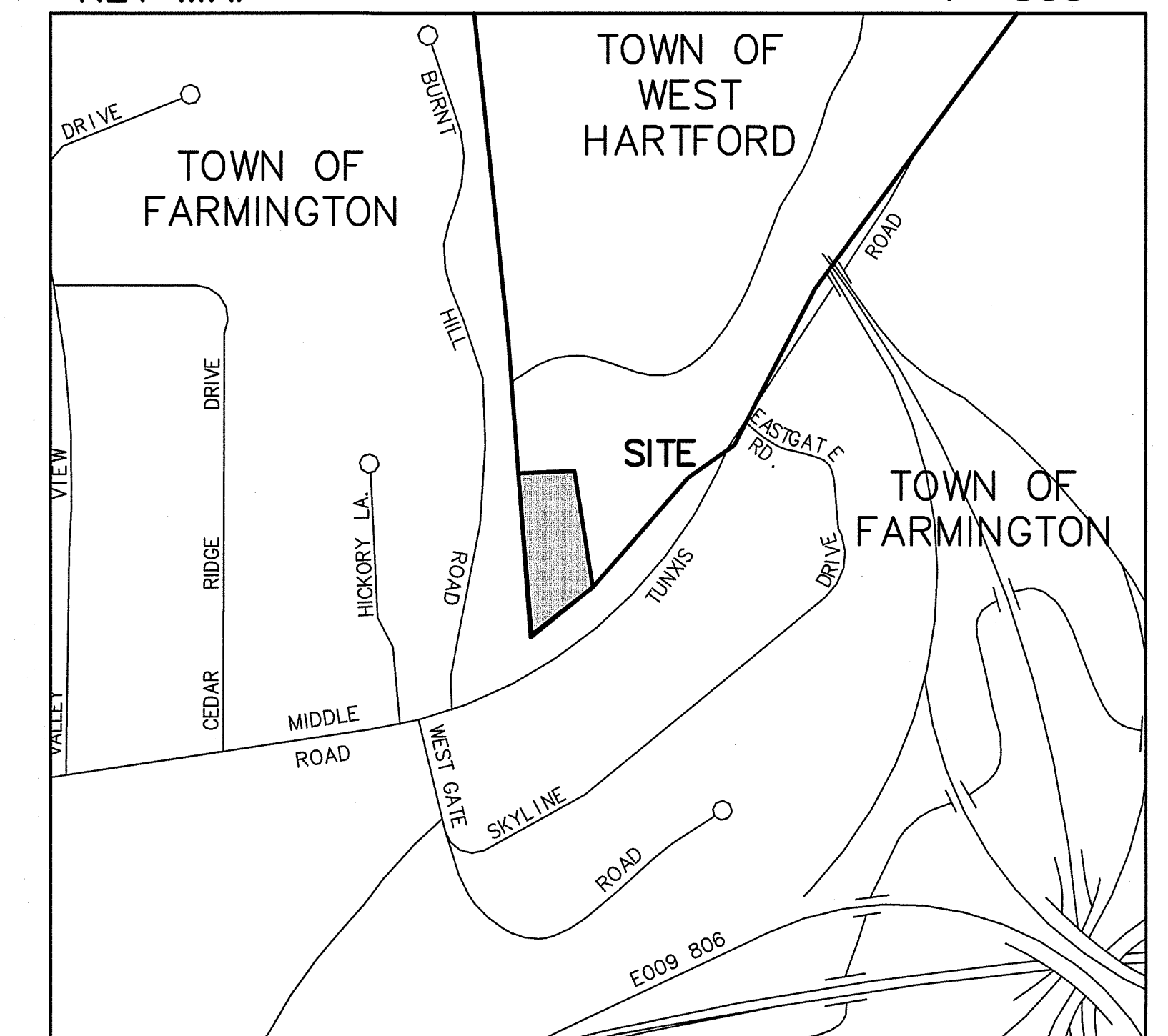
#### ZONING DATA

ZONE = R10  
MINIMUM LOT WIDTH = 70 FT.  
MINIMUM LOT SIZE = 10,500 SQ. FT.  
MINIMUM FRONT YARD = 30 FT.  
MINIMUM SIDE YARD = 10 FT.  
MINIMUM REAR YARD = 30 FT.

#### GENERAL NOTES:

1. HOUSE LOCATIONS AND ELEVATIONS ARE FOR THE PURPOSE OF DEMONSTRATING THAT ALL LOTS WILL SUPPORT DEVELOPMENT FOR THEIR INTENDED PURPOSE. THE PROPOSED HOUSES AS SHOWN ARE NOT INTENDED IN ANY WAY TO LIMIT THE SIZE, STYLE, LOCATION OR ELEVATION OF THE ACTUAL HOUSES TO BE BUILT.
2. ALL DISTURBED AREAS TO BE TOPSOILED AND SEED.
3. LOT GRADING SHALL BE DONE TO PROVIDE SURFACE DRAINAGE AND PREVENT PONDING.
4. SANITARY SEWERAGE TO BE PROVIDED BY THE TOWN OF FARMINGTON.
5. WATER SERVICE TO BE PROVIDED BY ON-SITE WELLS.
6. VERTICAL DATUM = NAVD 88 (NORTH AMERICAN VERTICAL DATUM OF 1988).
7. HORIZONTAL DATUM = NAD 83 (NORTH AMERICAN DATUM OF 1983).
8. ALL UTILITIES SHALL BE UNDERGROUND.
9. CONSTRUCTION OF ANY IMPROVEMENTS SHOWN SHALL BE IN ACCORDANCE WITH CTDOT, FORM 817, AS AMENDED, "STANDARD SPECIFICATIONS FOR ROAD, BRIDGES AND INCIDENTAL CONSTRUCTION", "TOWN OF WEST HARTFORD SPECIFICATIONS FOR CONSTRUCTION OF ROADS", "TOWN OF WEST HARTFORD ZONING REGULATIONS", "TOWN OF WEST HARTFORD SUBDIVISION REGULATIONS", "TOWN OF WEST HARTFORD INLAND WETLANDS AND WATERCOURSES REGULATIONS" AND THE CONNECTICUT LANDSCAPE ASSOCIATION'S "STANDARD SPECIFICATIONS FOR PLANTING TREES, SHRUBS, VINES, ETC." ARE TO BE USED FOR CONSTRUCTION STANDARDS.
10. ACCESS TO THE SITE DURING CONSTRUCTION SHALL BE THROUGH THE CONSTRUCTION ENTRANCE AS SHOWN ON THE PLANS AND NO OTHER ACCESS SHALL BE ALLOWED.
11. SHADE TREES SHALL EITHER BE PRESERVED OR PLANTED ON EACH LOT IN ACCORDANCE WITH WEST HARTFORD SUBDIVISION REGULATIONS SECTION A184-26.

KEY MAP

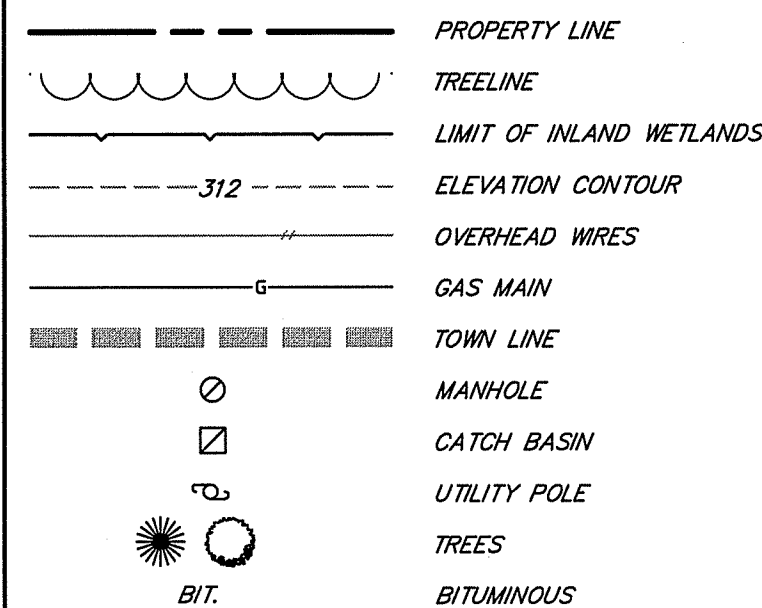


Date: 1-18-19

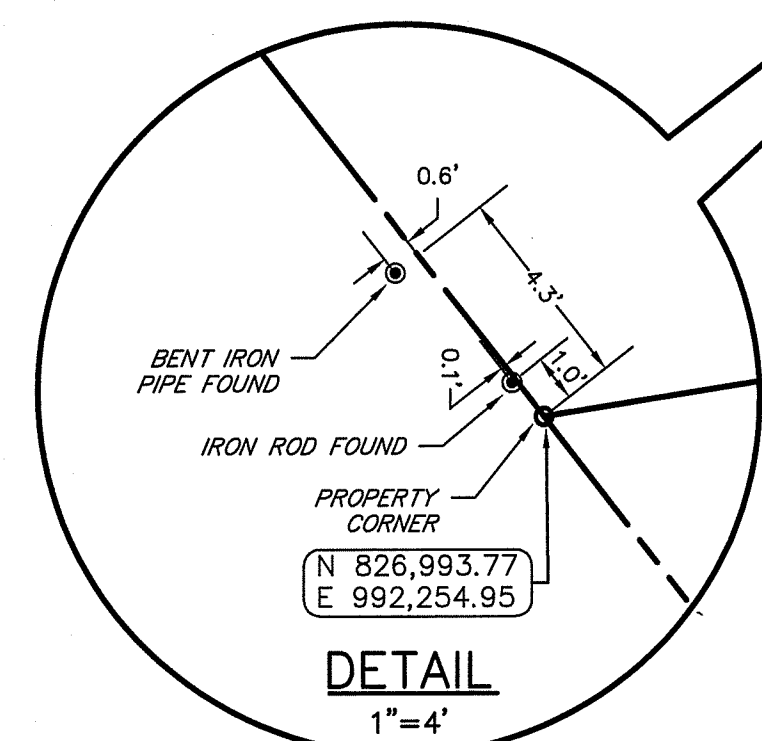
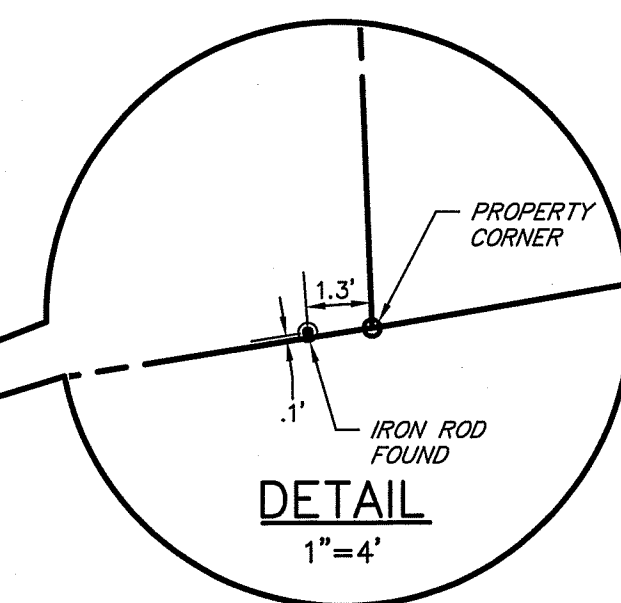
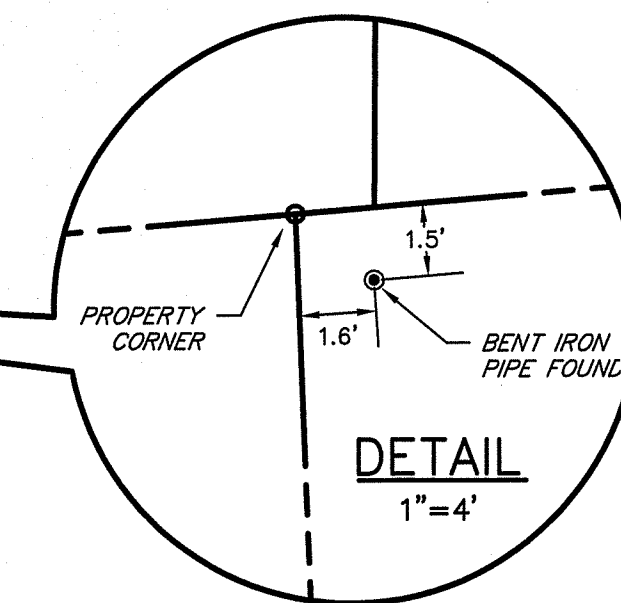
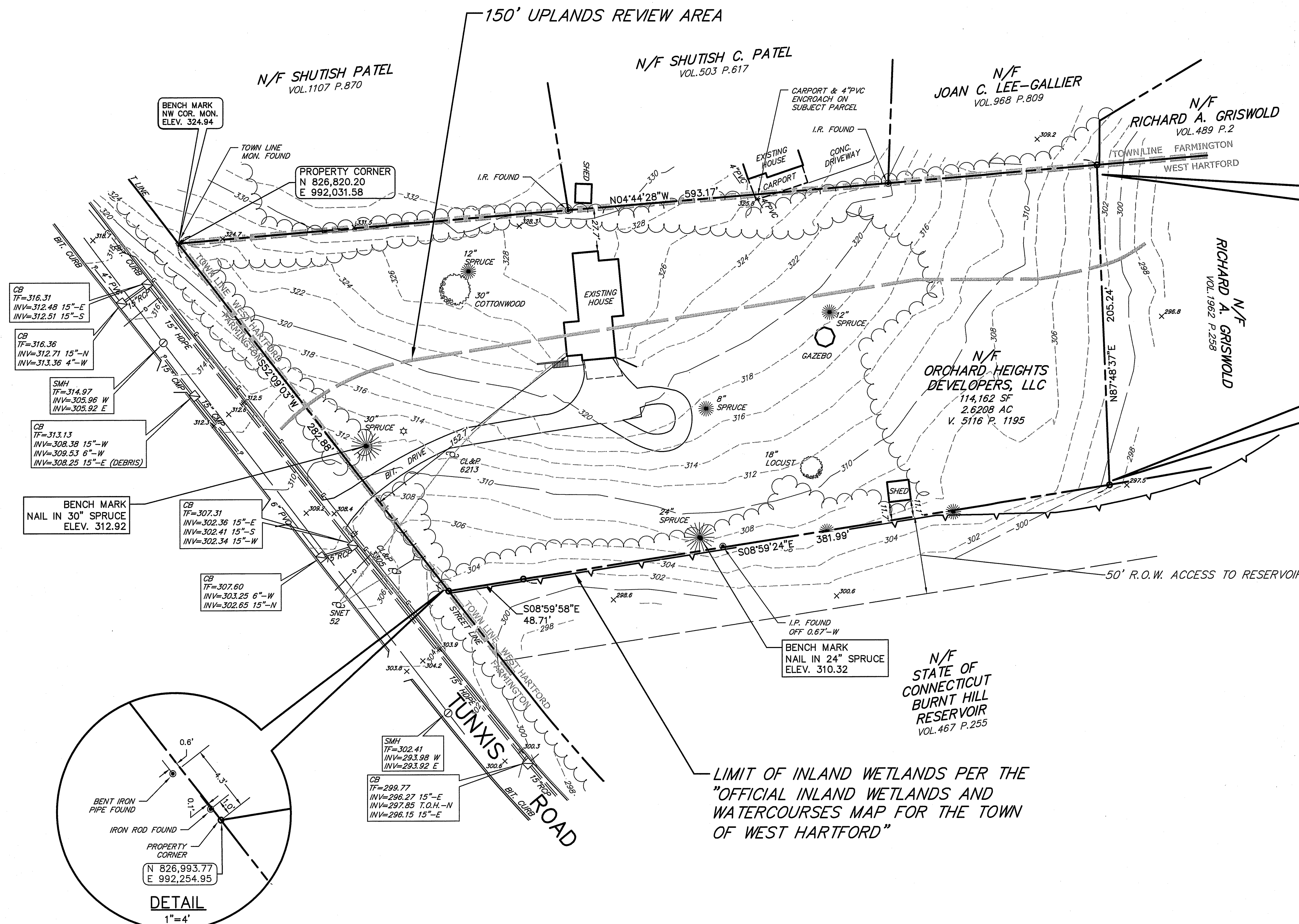
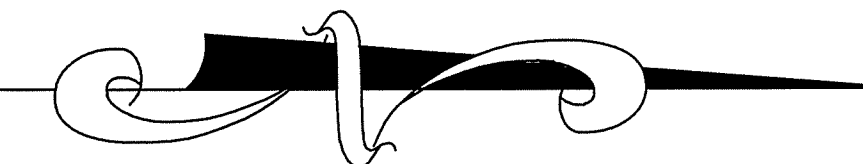
87306

1 of 12

# LEGEND



NAD83



## REFERENCE MAPS:

- "BOUNDARY SURVEY, MAP OF C.R. CASTALDI, 414 TUNXIS ROAD, WEST HARTFORD, CONN., DATE: 3-23-88, SCALE: 1"=40', REVISED THROUGH 5-3-88, BY BGI, THE BONGIOVANNI GROUP, INC.
- "FINAL PLOT PLAN BURNT HILL, PREPARED FOR NEWELL STAMM, BURNT HILL ROAD, FARMINGTON, CONN., SCALE 1"=40', DATE JUNE 30, 1983, ALFORD ASSOCIATES, INC."
- "TOWN OF FARMINGTON, HIGHWAY MAP, MIDDLE ROAD, FROM OLD SOUTH ROAD EASTERLY TO WEST HARTFORD, SCALE 1"=40', DATE JAN. 1940, SHEETS 3 & 4 OF 5, TOWN ENGINEER."

## NOTES:

- THIS SURVEY HAS BEEN PREPARED PURSUANT TO THE REGULATIONS OF CONNECTICUT STATE AGENCIES SECTIONS 20-300b-1 THROUGH 20-300b-20 AND THE "STANDARDS FOR SURVEYS AND MAPS IN THE STATE OF CONNECTICUT" AS ADOPTED BY THE CONNECTICUT ASSOCIATION OF LAND SURVEYORS, INC. ON SEPTEMBER 26, 1996.

TYPE OF SURVEY: PROPERTY SURVEY

BOUNDARY DETERMINATION CATEGORY: RESURVEY

CLASS OF HORIZONTAL ACCURACY: A-2

CLASS OF VERTICAL ACCURACY: V-2

CLASS OF BOUNDARY ACCURACY: A-2

CLASS OF TOPOGRAPHIC ACCURACY: T-2

SURFACE UTILITY ACCURACY: T-2

UNDERGROUND UTILITY ACCURACY: D (COMPILED)

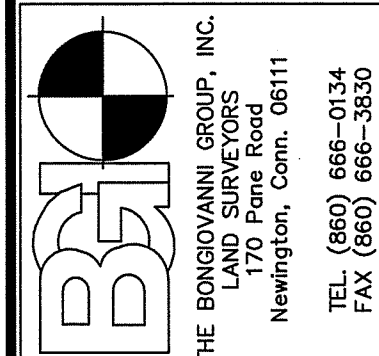
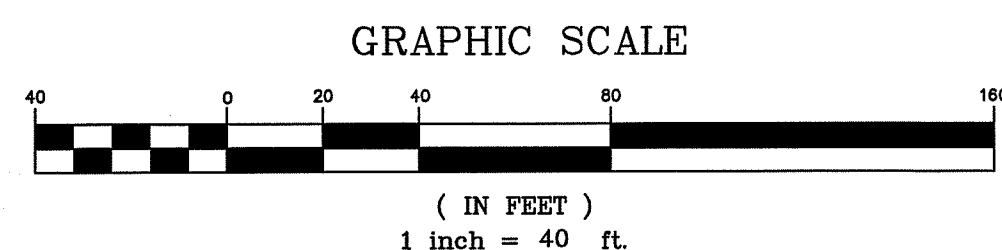
INTENDED USE: EXISTING CONDITIONS

- HORIZONTAL DATUM IS BASED ON NAD'83.
- ELEVATIONS ARE BASED ON NAVD'88.
- THIS MAP IS VALID ONLY IF IT BEARS THE ORIGINAL SIGNATURE AND EMBOSSED SEAL OF THE UNDERSIGNED LAND SURVEYOR.

TO MY KNOWLEDGE AND BELIEF, THIS MAP IS SUBSTANTIALLY CORRECT AS NOTED HEREON.

*[Signature]* 10-08-18 14849  
SURVEYOR'S SIGNATURE DATE LICENSE NUMBER

THIS DRAWING HAS BEEN PREPARED BASED, IN PART, ON INFORMATION PROVIDED BY OTHERS RELATING TO THE LOCATION OF UNDERGROUND SERVICES. WE CAN NOT VERIFY THE ACCURACY OF THIS INFORMATION AND SHALL NOT BE HELD RESPONSIBLE FOR ANY ERRORS OR OMISSIONS WHICH MAY BE INCORPORATED HEREIN AS A RESULT.  
INDICATED UNDERGROUND UTILITIES ARE BASED ON AVAILABLE DATA. THE LOCATIONS ARE APPROXIMATE AND ALL UTILITIES MAY NOT BE SHOWN.  
CALL "CALL B-4-U DIG" AT 1-800-922-4455 PRIOR TO ANY EXCAVATION.



Scale: 1"=40'	Checked: AB	Date
Date: 10-08-18	Drawn: DJD	
Revision		

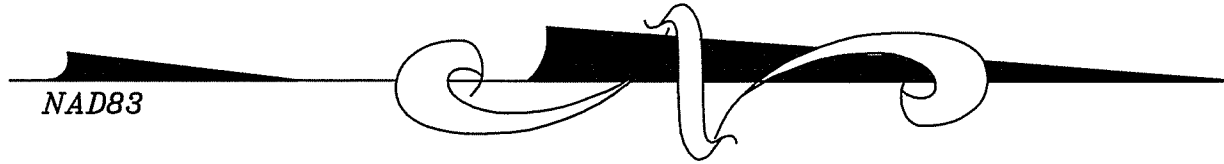
RESURVEY  
PREPARED FOR  
ORCHARD HEIGHTS DEVELOPERS LLC  
380 TUNXIS ROAD  
WEST HARTFORD, CONNECTICUT

PROPERTY  
SURVEY  
212  
of



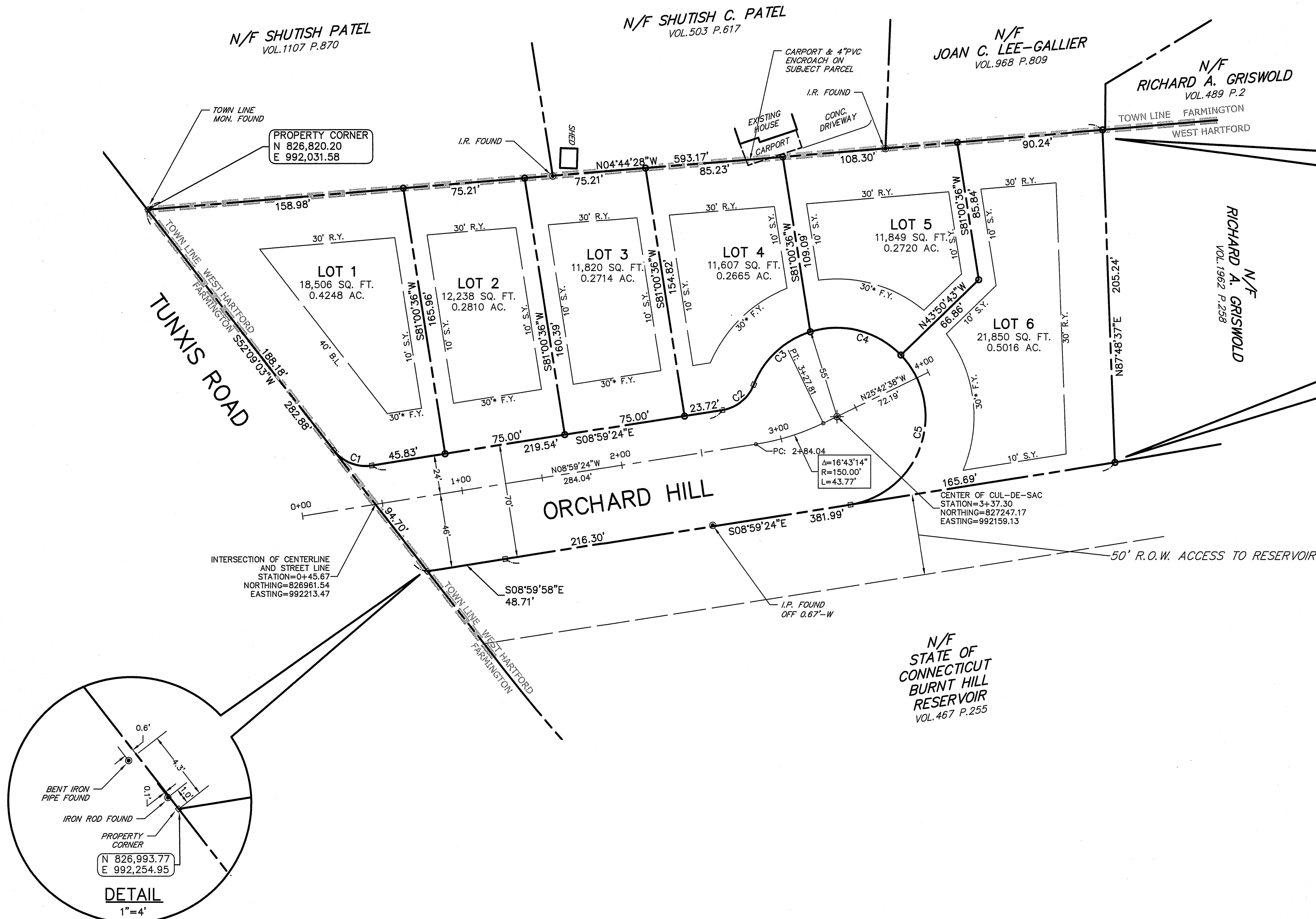
Curve Table			
Curve #	Delta	Radius	Length
C1	061°08'27"	25.00'	26.68'
C2	060°00'00"	25.00'	26.18'
C3	051°38'11"	55.00'	49.57'
C4	063°30'29"	55.00'	60.96'
C5	124°51'20"	55.00'	119.85'

Lot Area Table		
Lot #	Area (square feet)	Area (acres)
1	18,506	0.4248
2	12,238	0.2810
3	11,820	0.2714
4	11,607	0.2665
5	11,849	0.2720
6	21,850	0.5016



# LEGEND

	STONE WALL
	FENCE
	REBAR TO BE SET
	MERESTONE TO BE SET
	PROPERTY LINE
	BUILDING LINE
	TOWN LINE



## REFERENCE MAPS:

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- "TOWN OF FARMINGTON, HIGHWAY MAP, MIDDLE ROAD, FROM OLD SOUTH ROAD EASTERLY TO WEST HARTFORD, SCALE 1"=40', DATE JAN. 1940, SHEETS 3 & 4 OF 5, TOWN ENGINEER."

## NOTES:

- THIS SURVEY HAS BEEN PREPARED PURSUANT TO THE REGULATIONS OF CONNECTICUT STATE AGENCIES SECTIONS 20-300b-1 THROUGH 20-300b-20 AND THE "STANDARDS FOR SURVEYS AND MAPS IN THE STATE OF CONNECTICUT" AS ADOPTED BY THE CONNECTICUT ASSOCIATION OF LAND SURVEYORS, INC. ON SEPTEMBER 26, 1996.  
TYPE OF SURVEY: ORIGINAL SURVEY  
BOUNDARY DETERMINATION CATEGORY: RESURVEY  
CLASS OF HORIZONTAL ACCURACY: A-2  
CLASS OF BOUNDARY ACCURACY: A-2  
INTENDED USE: SUBDIVISION OF PROPERTY
- HORIZONTAL DATUM IS BASED ON NAD'83.
- THIS MAP IS VALID ONLY IF IT BEARS THE ORIGINAL SIGNATURE AND EMBOSSED SEAL OF THE UNDERSIGNED LAND SURVEYOR.

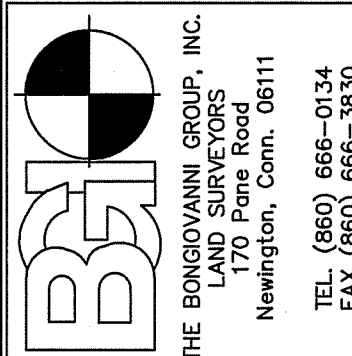
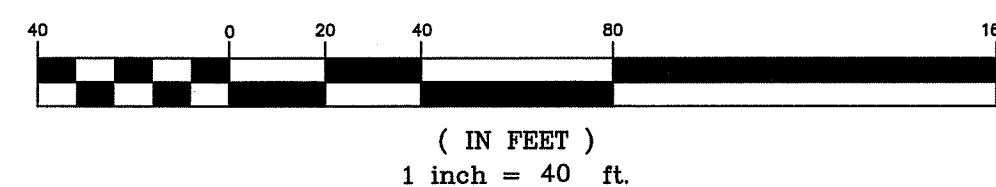
TO MY KNOWLEDGE AND BELIEF, THIS MAP IS SUBSTANTIALLY CORRECT AS NOTED HEREON.

SURVEYOR'S SIGNATURE DATE 1-18-19 LICENSE NUMBER 16649

## ZONING DATA

ZONE = R10  
MINIMUM LOT WIDTH = 70 FT.  
MINIMUM LOT SIZE = 10,500 SQ. FT.  
MINIMUM FRONT YARD = 30 FT.  
MINIMUM SIDE YARD = 10 FT.  
MINIMUM REAR YARD = 30 FT.

## GRAPHIC SCALE



Date: 1-18-19	Scale: 1"=40'
Drawn: BTM	Checked: AB
Revision	Date

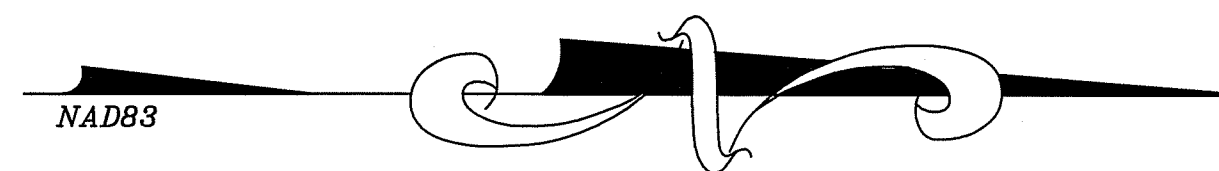
ORCHARDS HEIGHTS  
PREPARED FOR  
ORCHARD HEIGHTS DEVELOPERS LLC  
380 TUNXIS ROAD  
WEST HARTFORD, CONNECTICUT





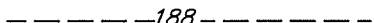
















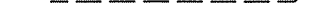
SUBDIVISION  
MAP

Sheet  
3 of 12

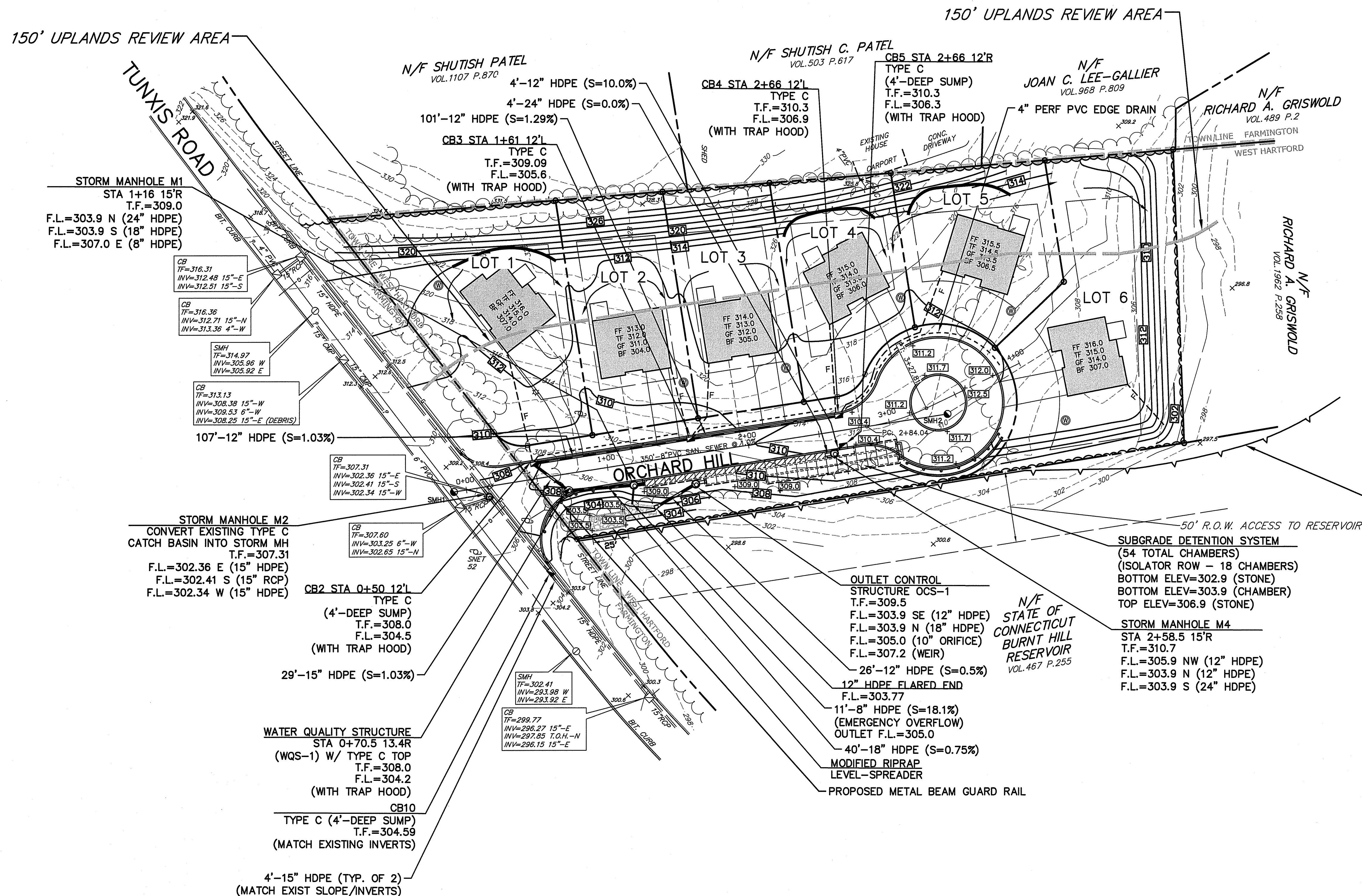
SMH1  
STA -0+10  
T.F. 308.27  
INV. IN N = 299.56  
INV. OUT E = 299.56

SMH2  
STA 3+39.40 10'R  
T.F. 312.5  
INV. 303.06



EXISTING	PROPOSED
	
	
	
	
	
	
	
	
	
	
	

1. ALL HIGH DENSITY POLYETHYLENE (HDPE) STORM DRAINAGE PIPING SHALL BE SHALL BE IN CONFORMANCE WITH ASTM D3350. REINFORCED CONCRETE PIPE SHALL CONFORM TO CONNDOT MATERIAL SPECIFICATION SECTION M.08.01(6).
2. ALL CATCH BASINS SHALL HAVE 2' DEEP SUMPS UNLESS NOTED OTHERWISE.
3. REFER TO CONSTRUCTION SEQUENCE FOR INSTALLATION OF SEDIMENTATION AND EROSION CONTROL MEASURES.
4. SUBGRADE DETENTION SYSTEM SHALL BE MANUFACTURED BY STORMTECH, OR APPROVED EQUAL. ANY SUBSTITUTION SHALL BE REVIEWED AND APPROVED BY THE DESIGN ENGINEER.
5. ALL CATCH BASINS SHALL BE FITTED WITH CATCH BASIN INLET PROTECTION DURING CONSTRUCTION.
6. ALL PROPOSED STORM DRAINAGE OUTLET PIPES AT CATCH BASINS SHALL BE FITTED WITH DEBRIS (TRAP) HOODS. HOODS SHALL BE A "SNOUT", MANUFACTURED BY BEST MANAGEMENT PRODUCTS INC., (800) 504-8008, OR APPROVED EQUAL.
7. WATER QUALITY STRUCTURE (WQS-1) SHALL BE DESIGNED TO TREAT A WATER QUALITY FLOW = 0.4 CFS AND BYPASS A DESIGN FLOW = 4.9 CFS. THE STRUCTURE SHALL BE HAVE A CTDOT TYPE C FRAME AND GRATE. THE STRUCTURE SHALL BE A CONTECH@MODEL CDS2015-4, SHALL BE A MODEL AND MANUFACTURER FROM THE CTDOT LIST OF APPROVED HYDRODYNAMIC SEPARATORS.



—LIMIT OF INLAND WETLANDS PER THE  
"OFFICIAL INLAND WETLANDS AND  
WATERCOURSES MAP FOR THE TOWN  
OF WEST HARTFORD"

1. THIS SURVEY HAS BEEN PREPARED PURSUANT TO THE REGULATIONS OF CONNECTICUT STATE AGENCIES SECTIONS 20-300b-1 THROUGH 20-300b-20 AND THE "STANDARDS FOR SURVEYS AND MAPS IN THE STATE OF CONNECTICUT" AS ADOPTED BY THE CONNECTICUT ASSOCIATION OF LAND SURVEYORS, INC. ON SEPTEMBER 26, 1996;

INTENDED USE: *DEPICT GRADING AND STORMWATER IMPROVEMENTS*

4. THIS MAP IS VALID ONLY IF IT

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NOTED HEREON.

1-18-19 14610

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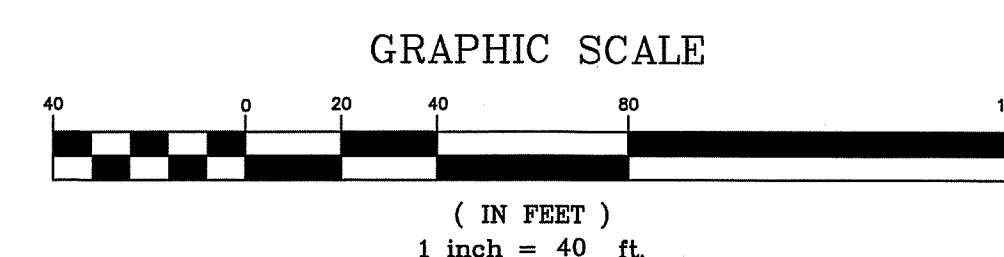
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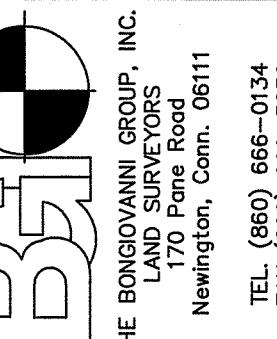
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273 Dividend Road, Rocky Hill, CT 06067  
860.513.1473 800.SAMPSON  
[www.westonandsampson.com](http://www.westonandsampson.com)

[illegible]

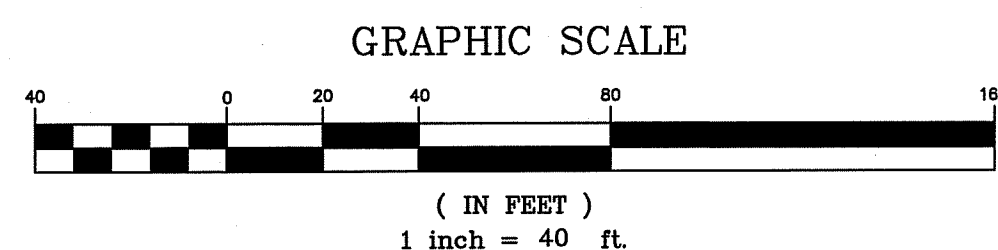
PREPARED FOR  
ORCHARD HEIGHTS DEVELOPERS LLC  
380 TUNXIS ROAD  
WEST HARTFORD, CONNECTICUT

## GRADING & UTILITIES

4	12
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87.306





RB      1-18-19      14649  
SURVEYOR'S SIGNATURE      DATE      LICENSE NUMBER



LEGEND	
EXISTING	PROPOSED

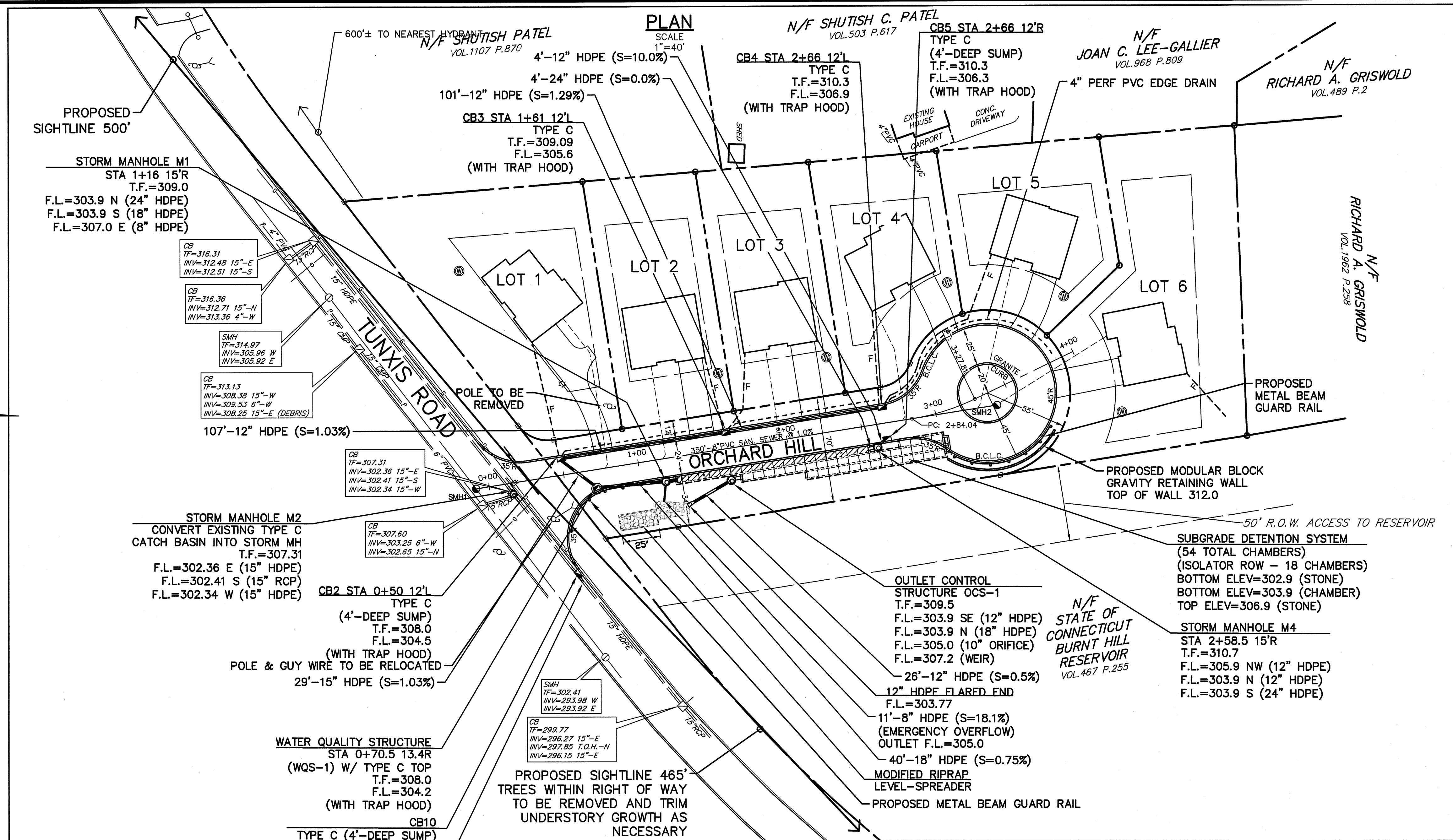
NAD83

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#### PROPOSED SANITARY SEWER MANHOLE SCHEDULE

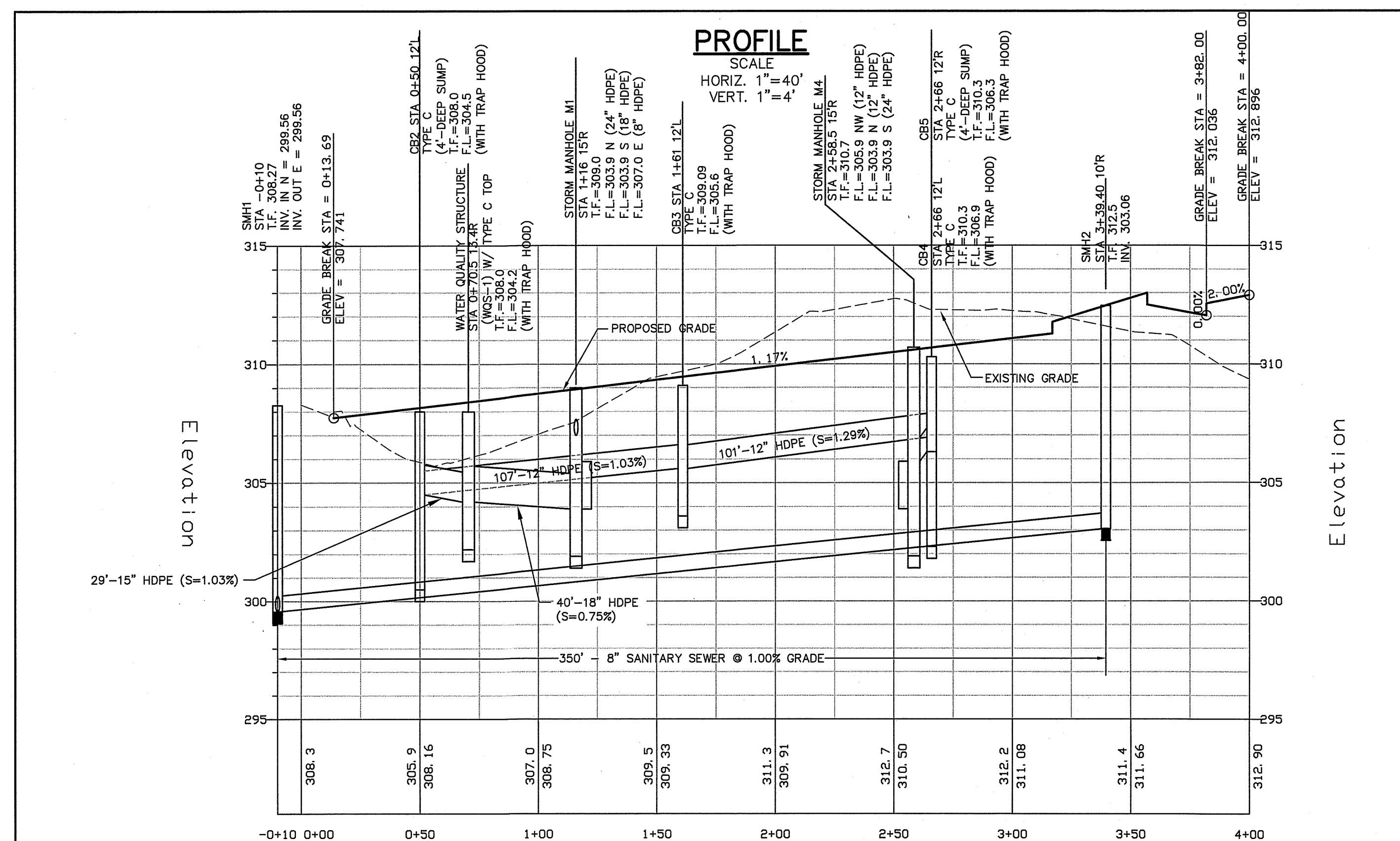
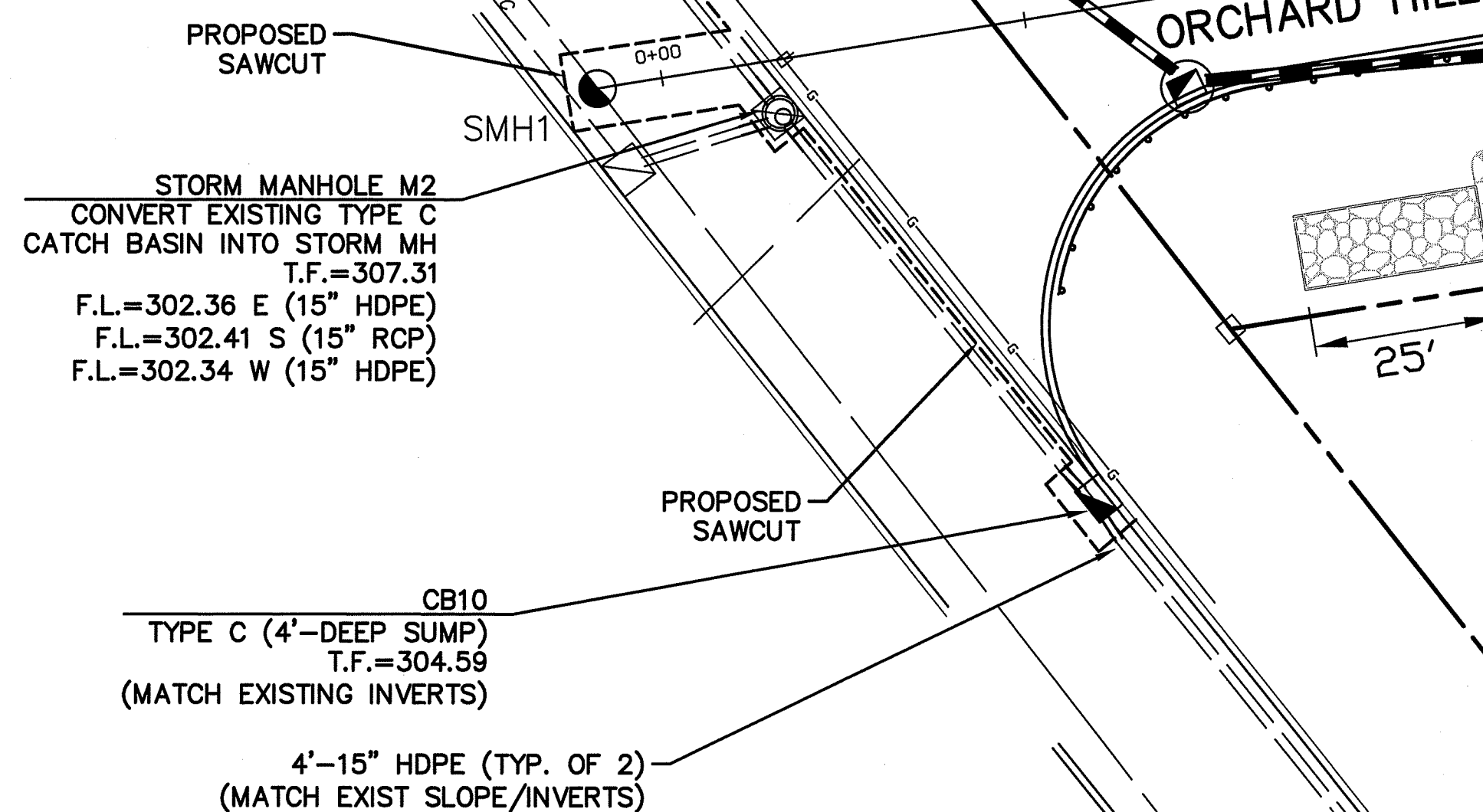
SMH1  
STA 0+10  
T.F. 308.27  
INV. IN N = 299.56  
INV. OUT E = 299.56

SMH2  
STA 3+39.40 10'R  
T.F. 312.5  
INV. 303.06



#### SAWCUT DETAIL

SCALE 1"=20'



**Weston@Sampson**  
271 Oakland Road, Rocky Hill, CT 06067  
860.513.1273  
www.westonsampson.com

**B&B**  
THE BONGIOVANNI GROUP, INC.  
170 Pine Road  
Newington, Conn. 06111  
TEL (860) 666-0134  
FAX (860) 666-3330

Scale: 1"=40'	Checked: AB	Date:
Drawn: BTM	Revision:	

ORCHARD HEIGHTS  
PREPARED FOR  
**ORCHARD HEIGHTS DEVELOPERS LLC**  
380 TUNXIS ROAD  
WEST HARTFORD, CONNECTICUT

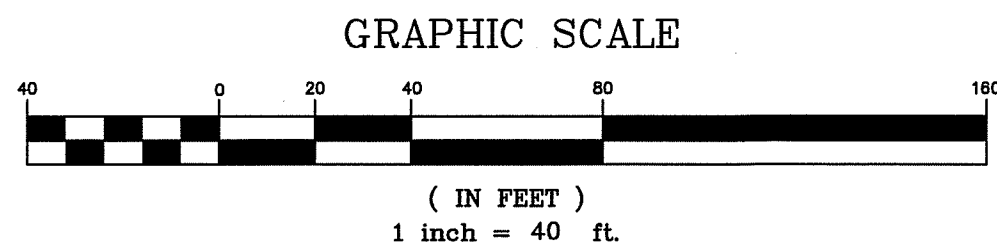
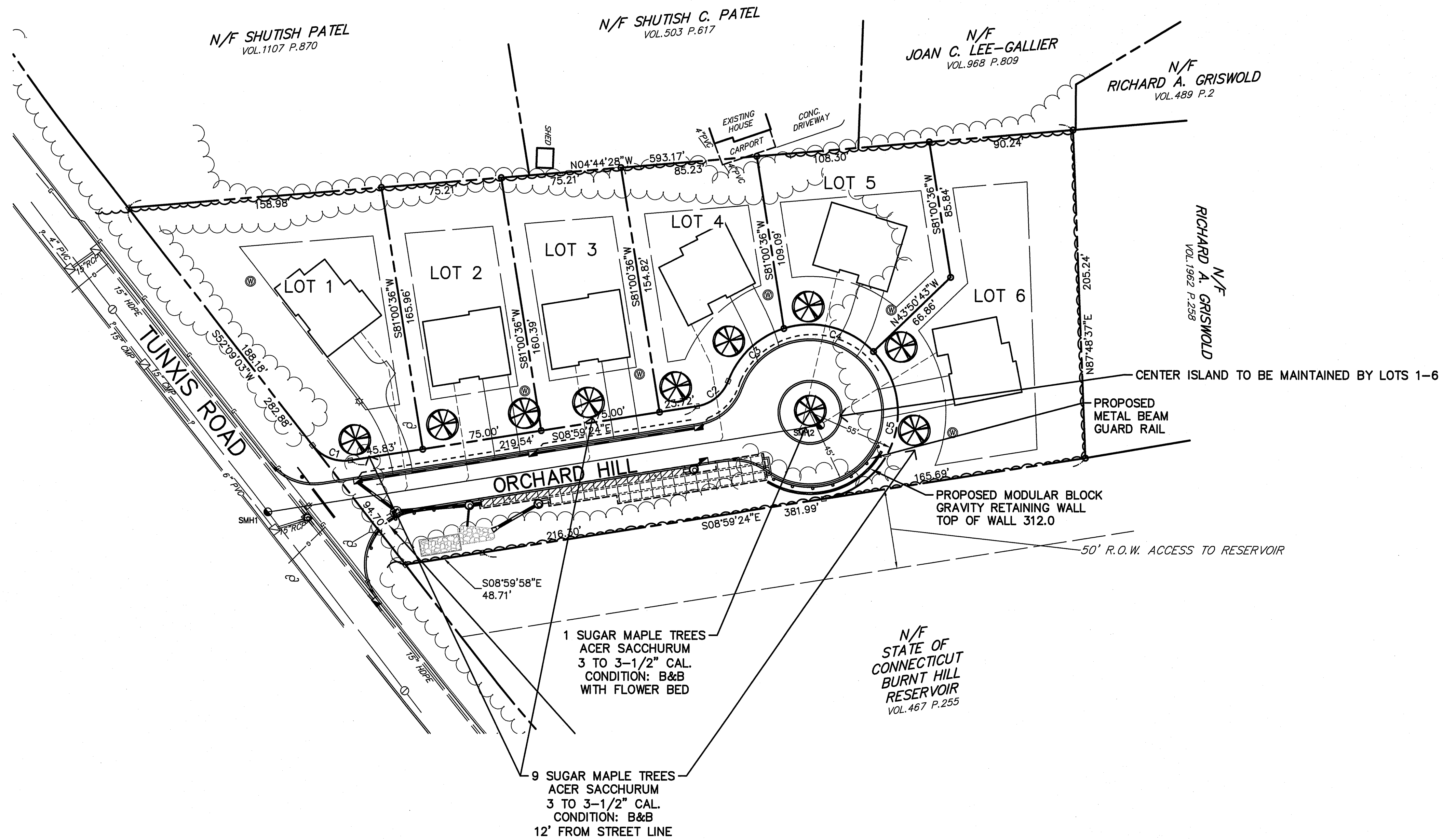
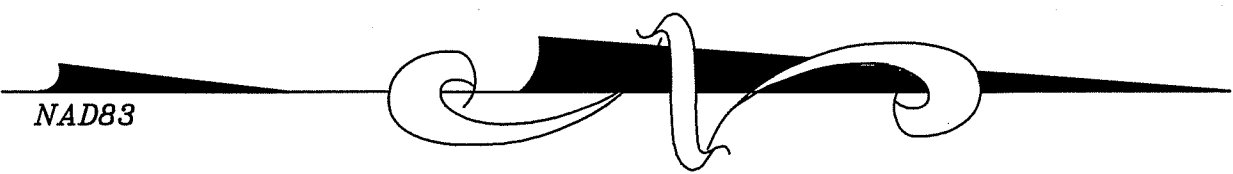
ROADWAY  
PLAN  
&  
PROFILE

Sheet  
**612**

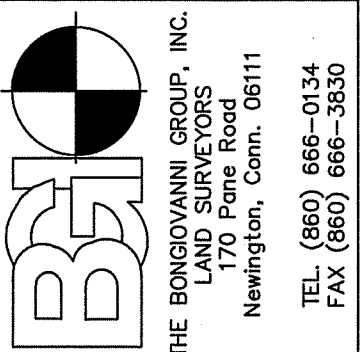
87306

LEGEND	
EXISTING	PROPOSED
	CATCH BASIN
	MANHOLE
	STORM SEWER PIPE
	SIGN
	TREE LINE
	TREE

Curve Table			
Curve #	Delta	Radius	Length
C1	061°08'27"	25.00'	26.68'
C2	060°00'00"	25.00'	26.18'
C3	051°38'11"	55.00'	49.57'
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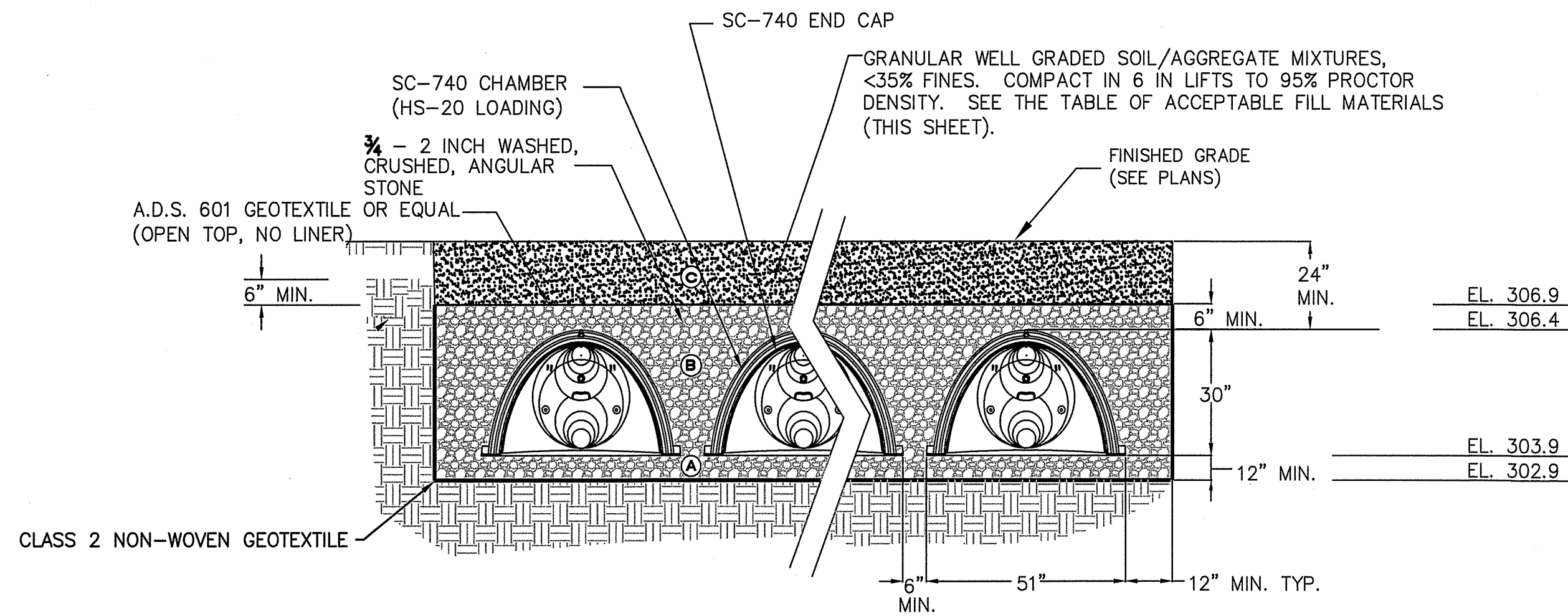


Date: 1-18-19	Scale: 1"=40'
Drawn: BTM	Checked: AB
Revision	Date

ORCHARD HEIGHTS  
PREPARED FOR  
**ORCHARD HEIGHTS DEVELOPERS LLC**  
380 TUNXIS ROAD  
WEST HARTFORD, CONNECTICUT

PLANTING  
PLAN





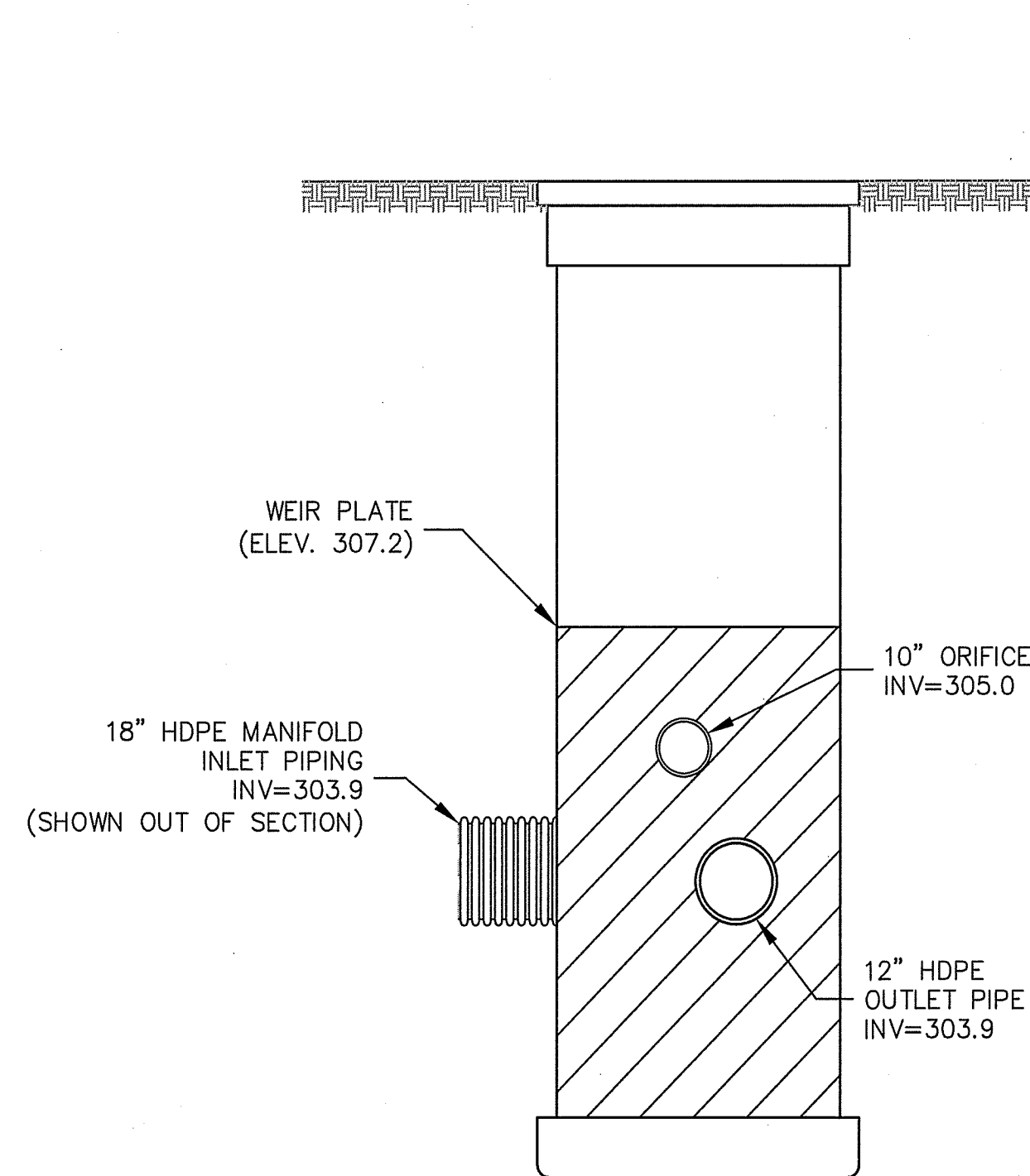
NOTE: MINIMUM 4' OVERLAP FOR THERMOPLASTIC LINER.

**SC-740 TYPICAL CROSS SECTION**  
N.T.S

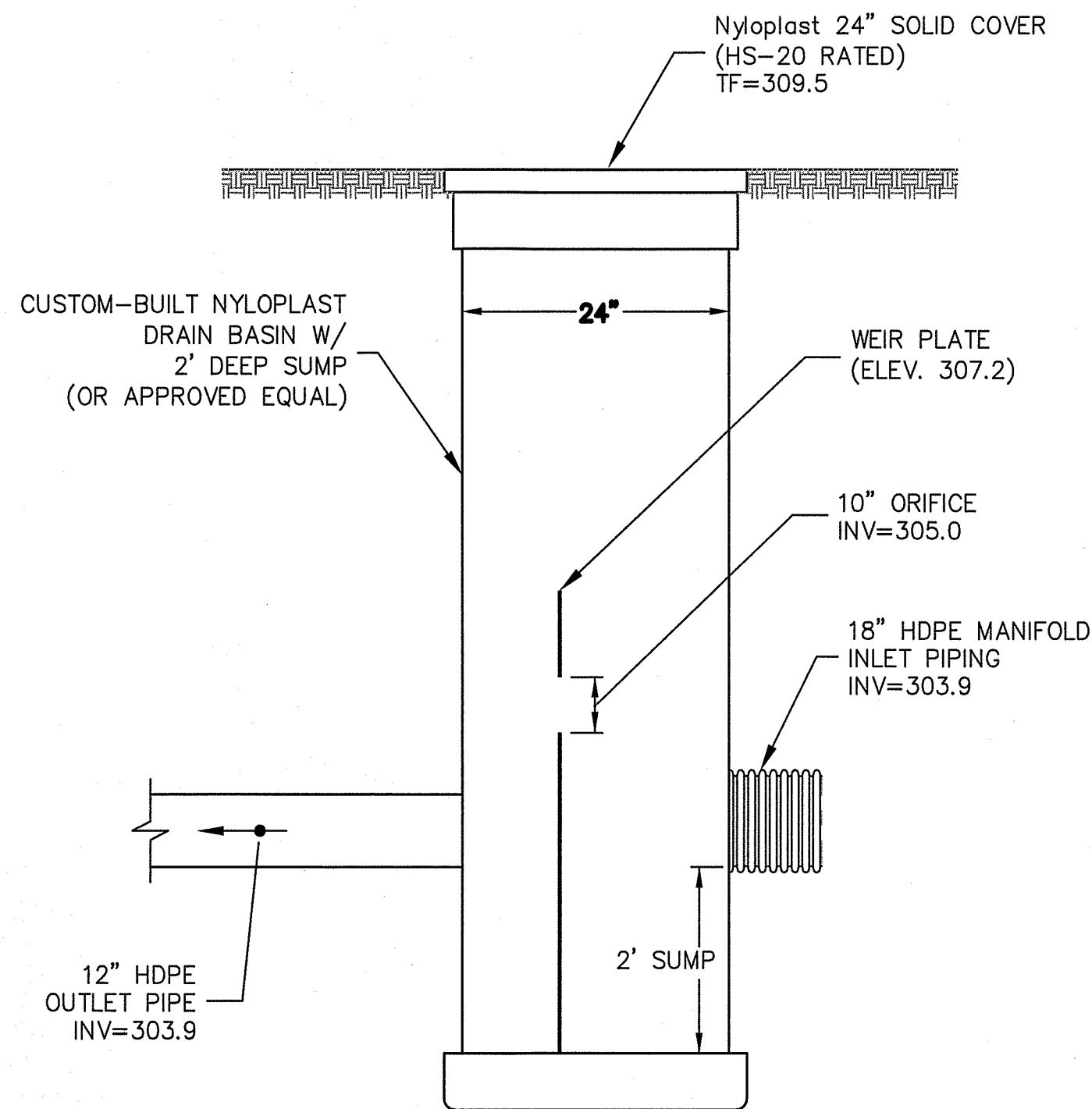
MATERIAL LOCATION	DESCRIPTION	AASHTO M43 DESIGNATION	AASHTO M145 DESIGNATION	COMPACTION/DENSITY REQUIREMENT
FILL MATERIAL FROM 18" TO GRADE ABOVE CHAMBERS	ANY SOIL/ROCK MATERIALS, NATIVE SOILS OR PER ENGINEER'S PLANS. CHECK PLANS FOR PAVEMENT SUBGRADE REQUIREMENTS.	N/A	N/A	PER ENGINEER'S REQUIREMENTS REGARDING FORMATION OF SUBGRADE BELOW PAVEMENT STRUCTURE
© FILL MATERIAL FOR 6" TO 18" ELEVATION ABOVE CHAMBERS (24" FOR UNPAVED INSTALLATIONS)	GRANULAR WELL-GRADED SOIL/AGGREGATE MIXTURES, <35% FINES.	3, 357, 4, 467, 5, 56, 57, 6, 67, 68, 7, 78, 8, 89, 9, 10	A-1 A-2 A-3	COMPACT IN 6" LIFTS TO A MINIMUM 95% STANDARD PROCTOR DENSITY. ROLLER GROSS VEHICLE WEIGHT NOT TO EXCEED 12,000 LBS. DYNAMIC FORCE NOT TO EXCEED 20,000 LBS.
ⓑ EMBEDMENT STONE SURROUNDING AND TO A 6" ELEVATION ABOVE CHAMBERS	WASHED ANGULAR STONE WITH THE MAJORITY OF PARTICLES BETWEEN ¾ - 2 INCH	3, 357, 4, 467, 5, 56, 57	N/A	NO COMPACTION REQUIRED
Ⓐ FOUNDATION STONE BELOW CHAMBERS	WASHED ANGULAR STONE WITH THE MAJORITY OF PARTICLES BETWEEN ¾ - 2 INCH	3, 357, 4, 467, 5, 56, 57	N/A	PLATE COMPACT OR ROLL TO ACHIEVE A 95% STANDARD PROCTOR DENSITY

PLEASE NOTE: THE LISTED AASHTO DESIGNATIONS ARE FOR GRADATIONS ONLY. THE STONE MUST ALSO BE WASHED CRUSHED ANGULAR. FOR EXAMPLE, THE STONE MUST BE SPECIFIED AS WASHED, CRUSHED, ANGULAR NO. 4 STONE.

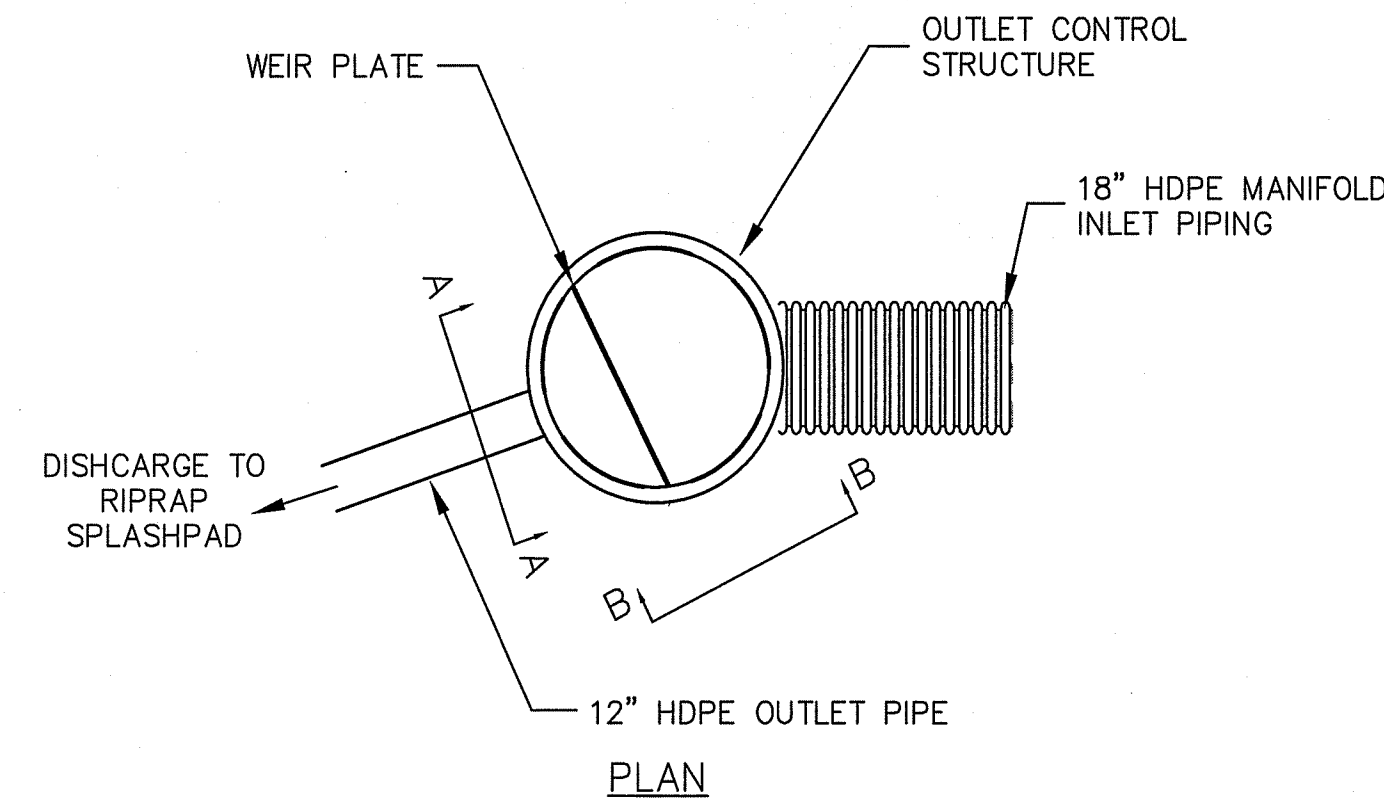
**ACCEPTABLE FILL MATERIALS**  
**STORMTECH SC-740 CHAMBER SYSTEMS**



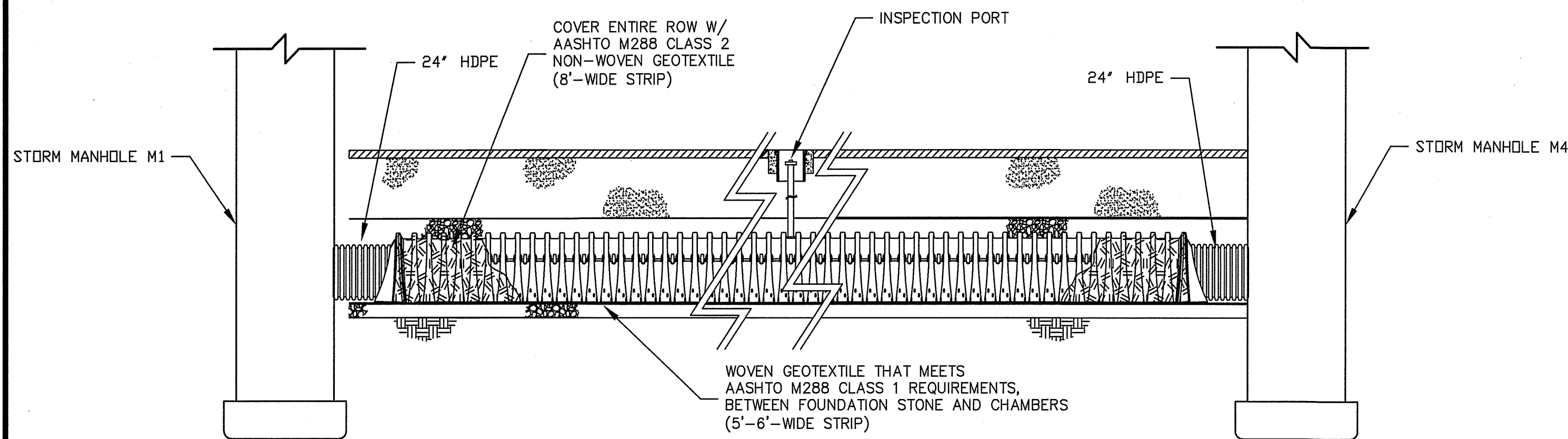
**SECTION A-A**



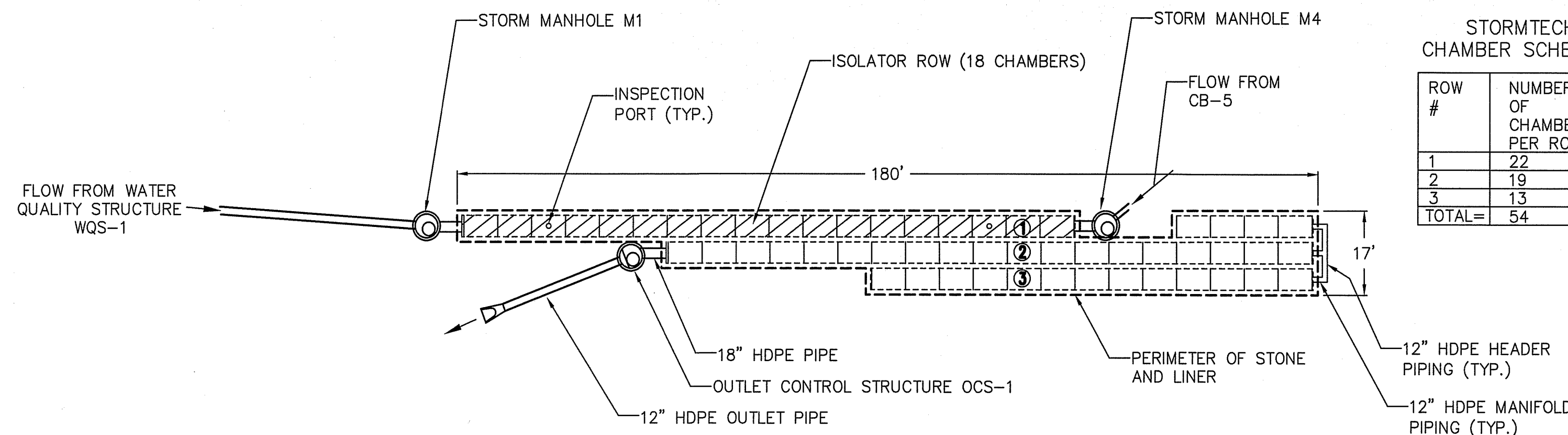
**SECTION B-B**



**OUTLET CONTROL STRUCTURE AND PIPING DETAIL**  
N.T.S



**ISOLATOR ROW PROFILE**  
N. T. S.



**SUBGRADE DETENTION SYSTEM SCHEMATIC**  
N.T.S.

**STORMTECH CHAMBER SCHEDULE**

ROW #	NUMBER OF CHAMBERS PER ROW
1	22
2	19
3	13
TOTAL=	54

**Weston Sampson**  
270 Division Road, Rocky Hill, CT 06067  
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www.westonsampson.com

**B&B**  
THE BONGIOVANNI GROUP, INC.  
170 Pine Road  
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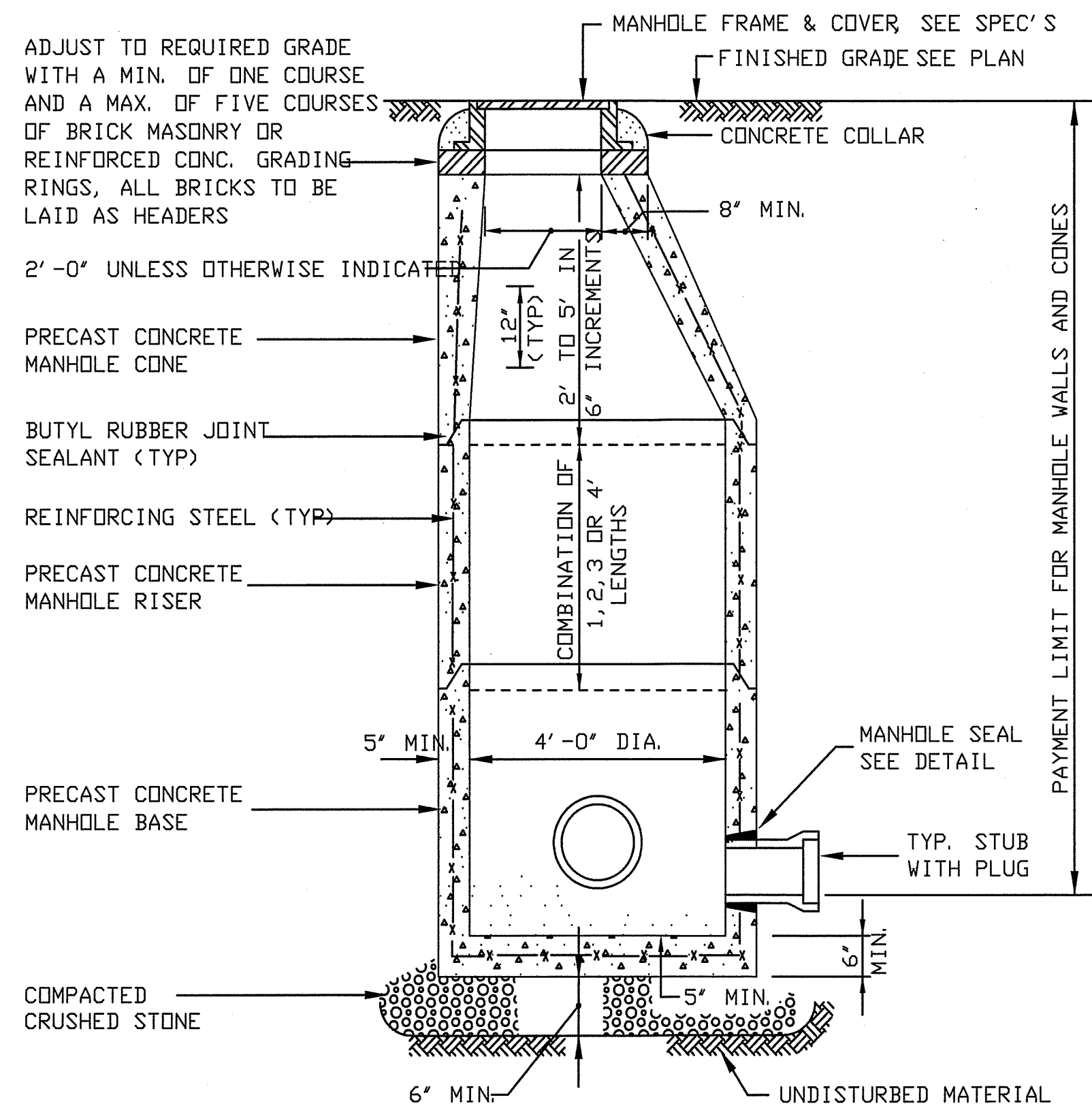
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Date: 1-18-19	Drawn: BTM	Revision

ORCHARD HEIGHTS  
PREPARED FOR  
**ORCHARD HEIGHTS DEVELOPERS LLC**  
380 TUNXIS ROAD  
WEST HARTFORD, CONNECTICUT

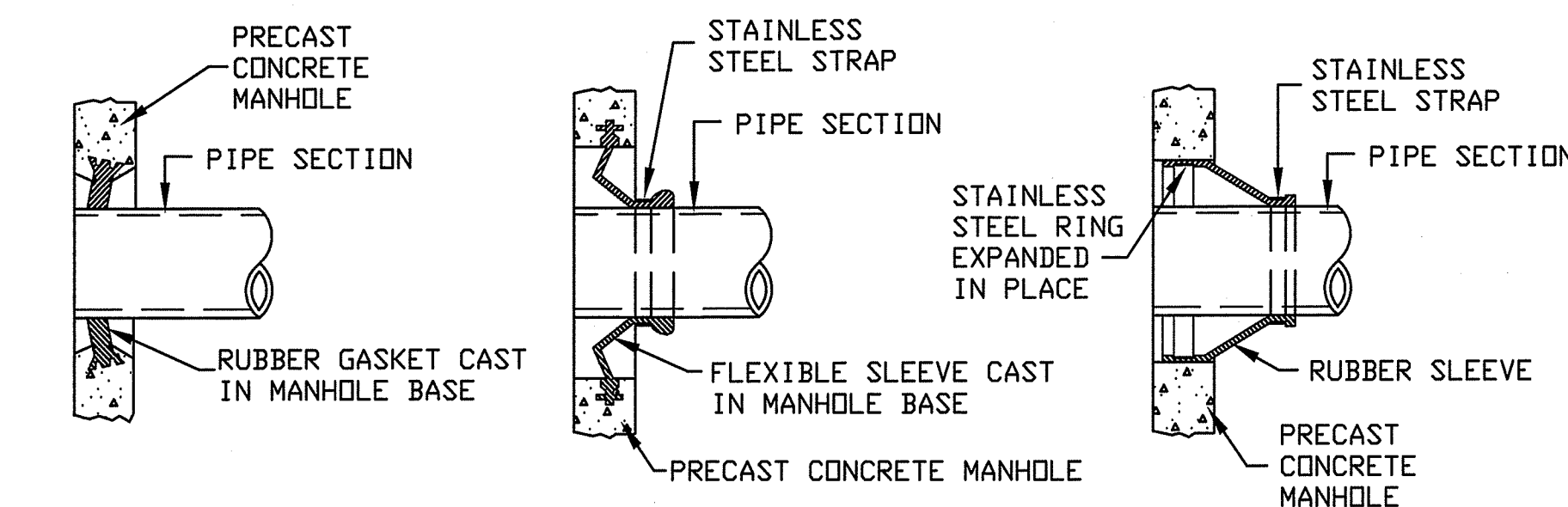
STORMWATER  
DETAILS

Sheet  
**8** of **12**

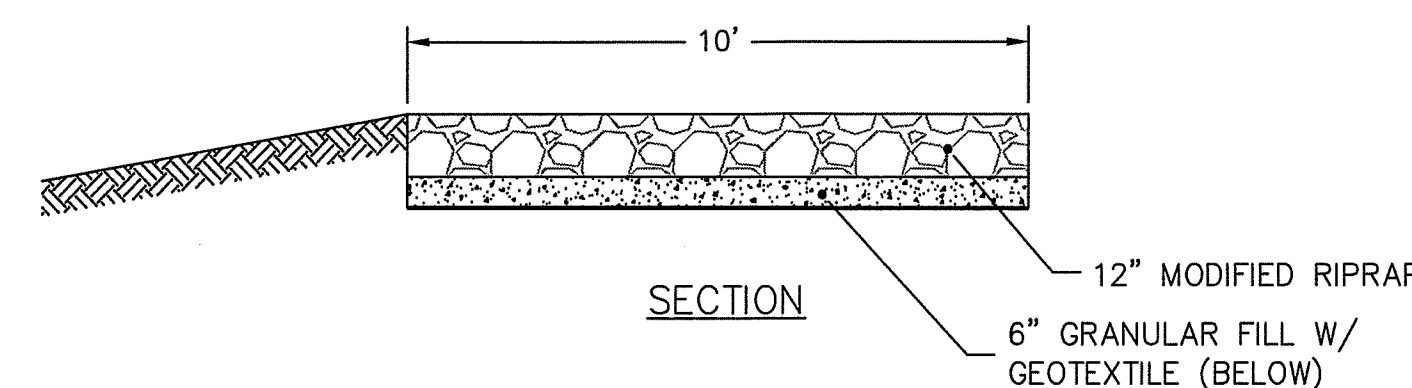




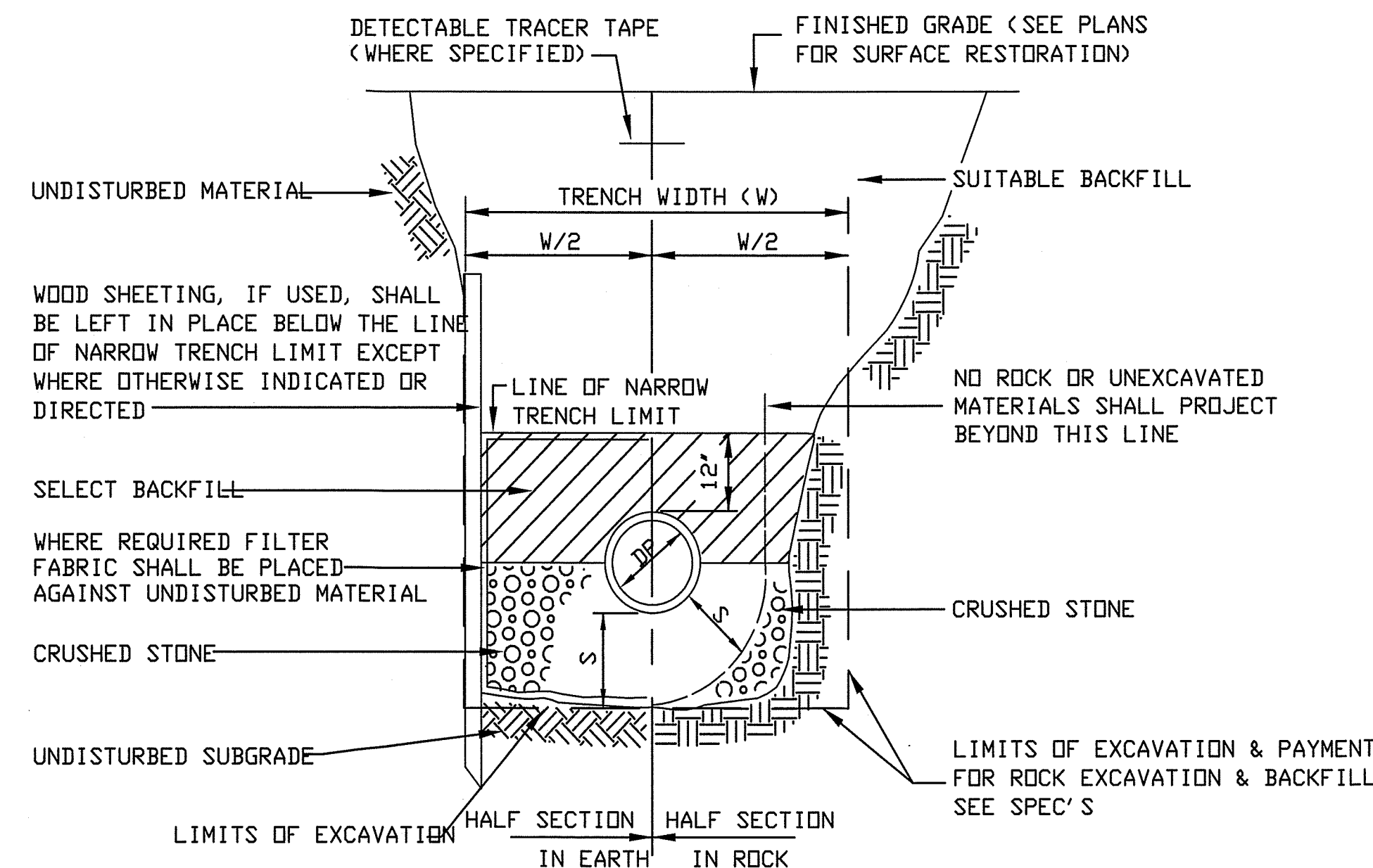
4'-0" DIA. PRECAST CONCRETE  
STORM DRAIN MANHOLE DETAIL  
N. T. S.



MANHOLE AND TANK SEAL DETAILS  
N. T. S.



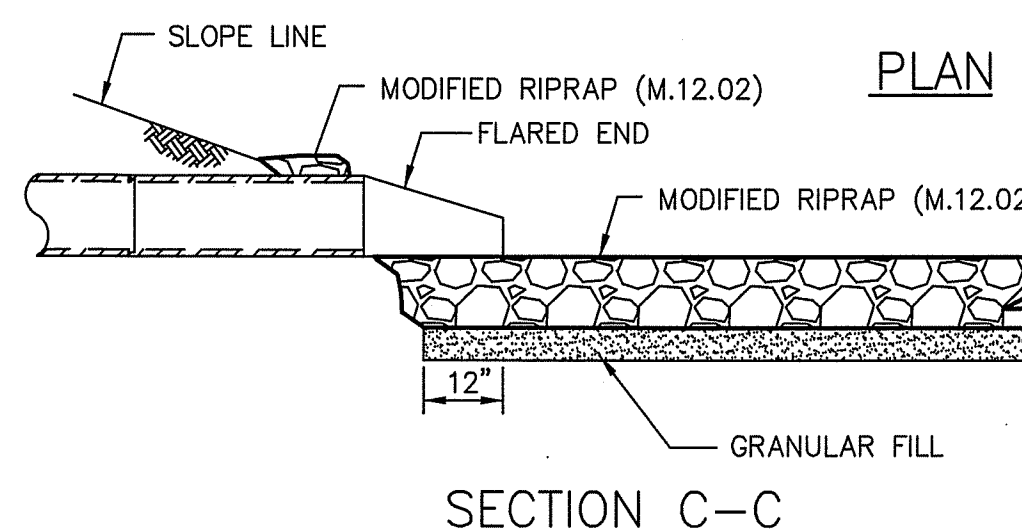
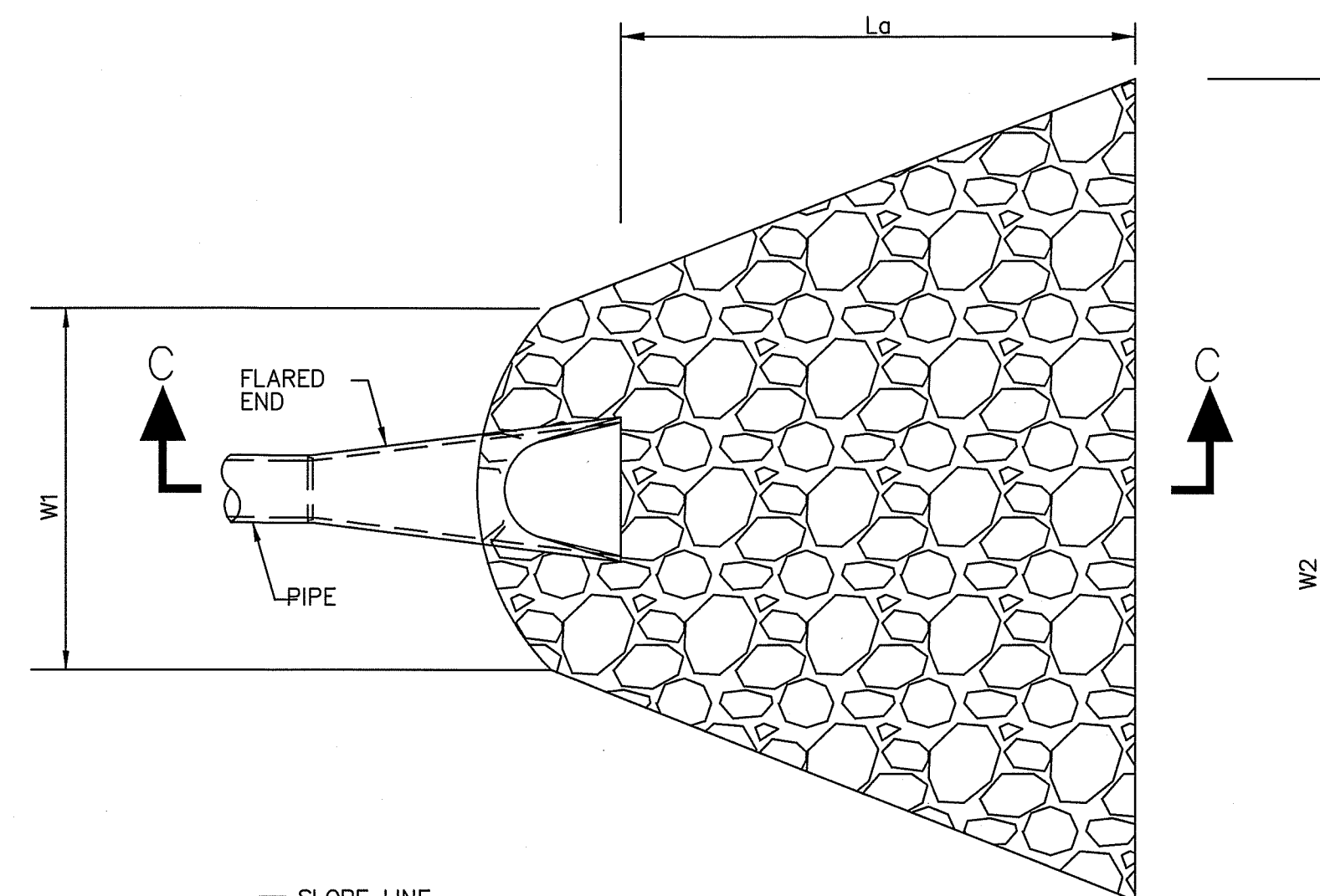
LEVEL SPREADER  
N. T. S.



STORM DRAIN TRENCH DETAIL  
N. T. S.

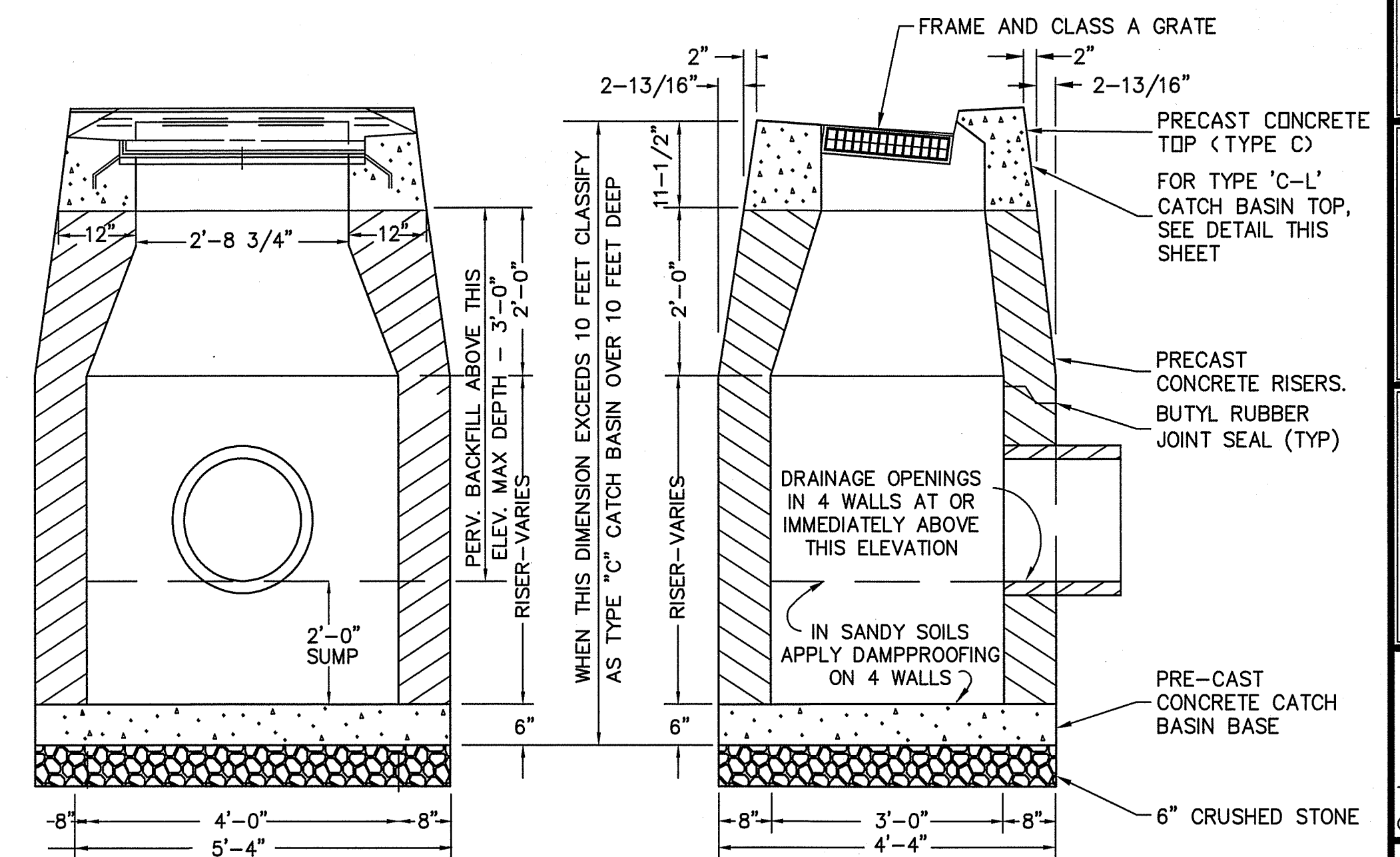
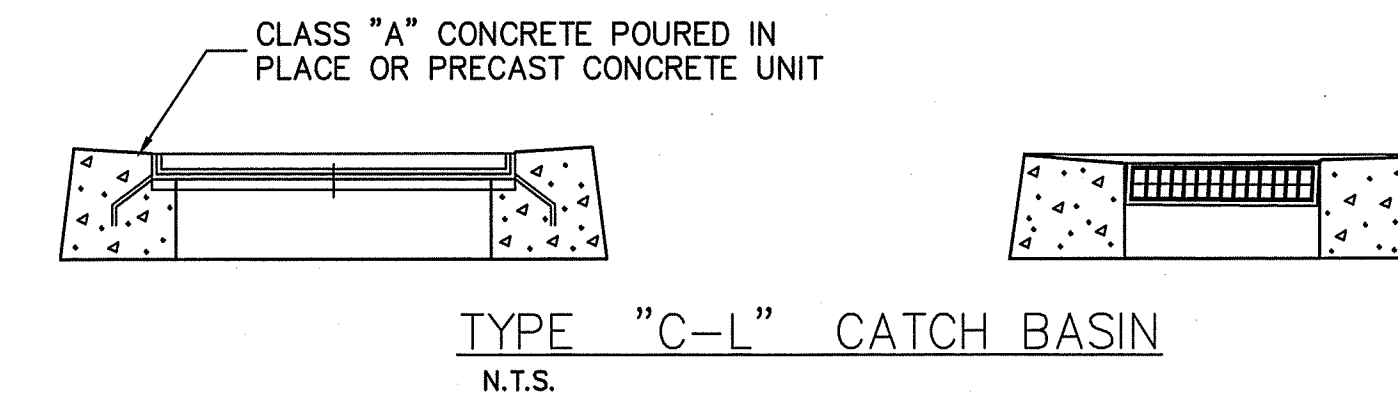
DEPTH TO INVERT	DIAMETER OF PIPE (DP)	MAXIMUM TRENCH WIDTH BELOW LINE OF NARROW TRENCH LIMIT (SHEETED OR UNSHEETED) (W)	MINIMUM CLEARANCE (S)
0-12'	TO 18"	5'	6"
0-12'	21"-24"	5'	7-1/2"
OVER 12'	TO 18"	7'	6"
OVER 12'	21"-24"	7'	7-1/2"

TABLE A



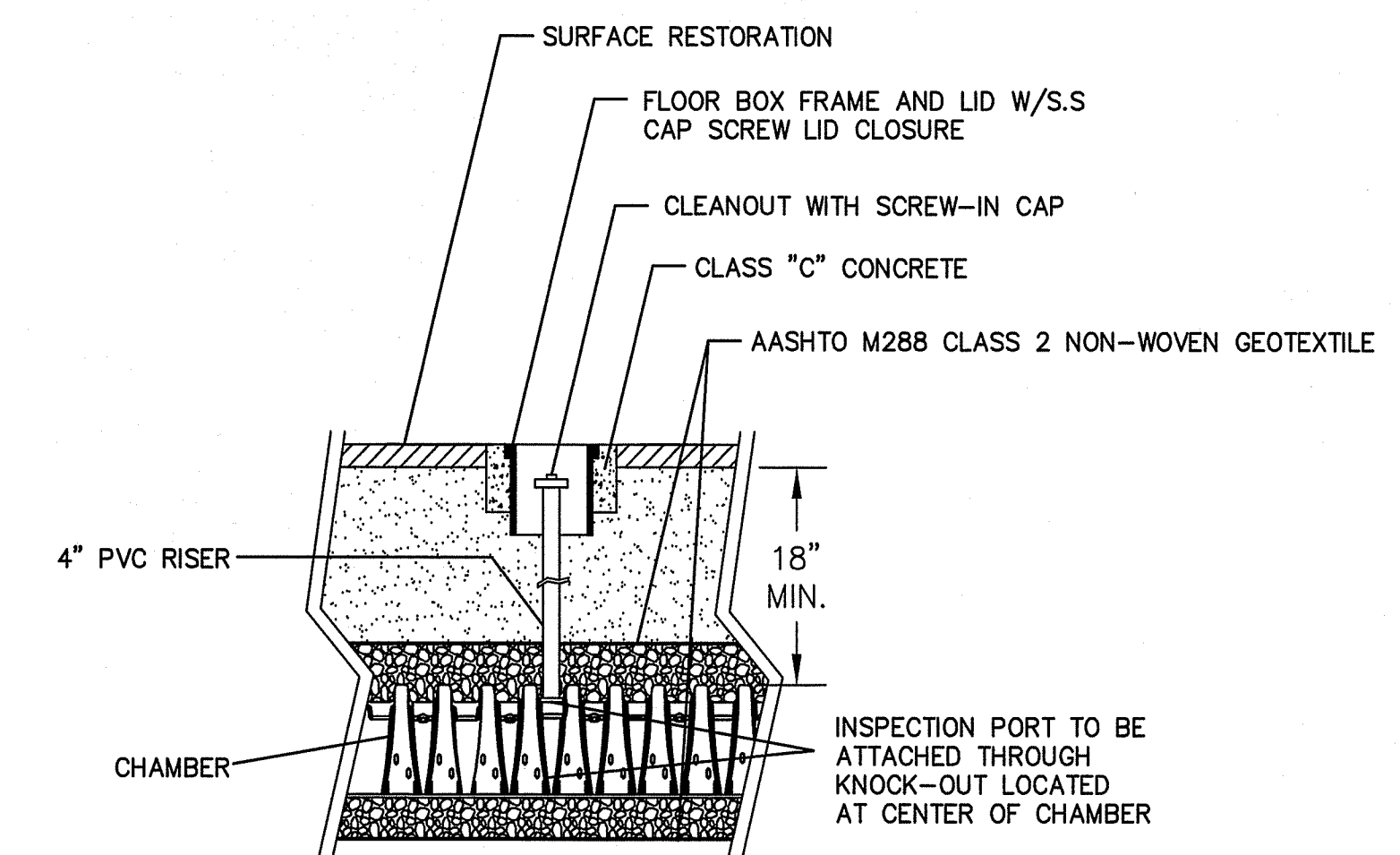
	RIPRAP TYPE	T <sub>1</sub> (RIPRAP)	T <sub>2</sub> (GRAVEL)	W <sub>1</sub>	W <sub>2</sub>	L <sub>a</sub>
SPLASH PAD	MODIFIED RIPRAP	12"	6"	7'	12'	21'

MODIFIED RIPRAP SPLASH PAD DETAIL  
N. T. S.

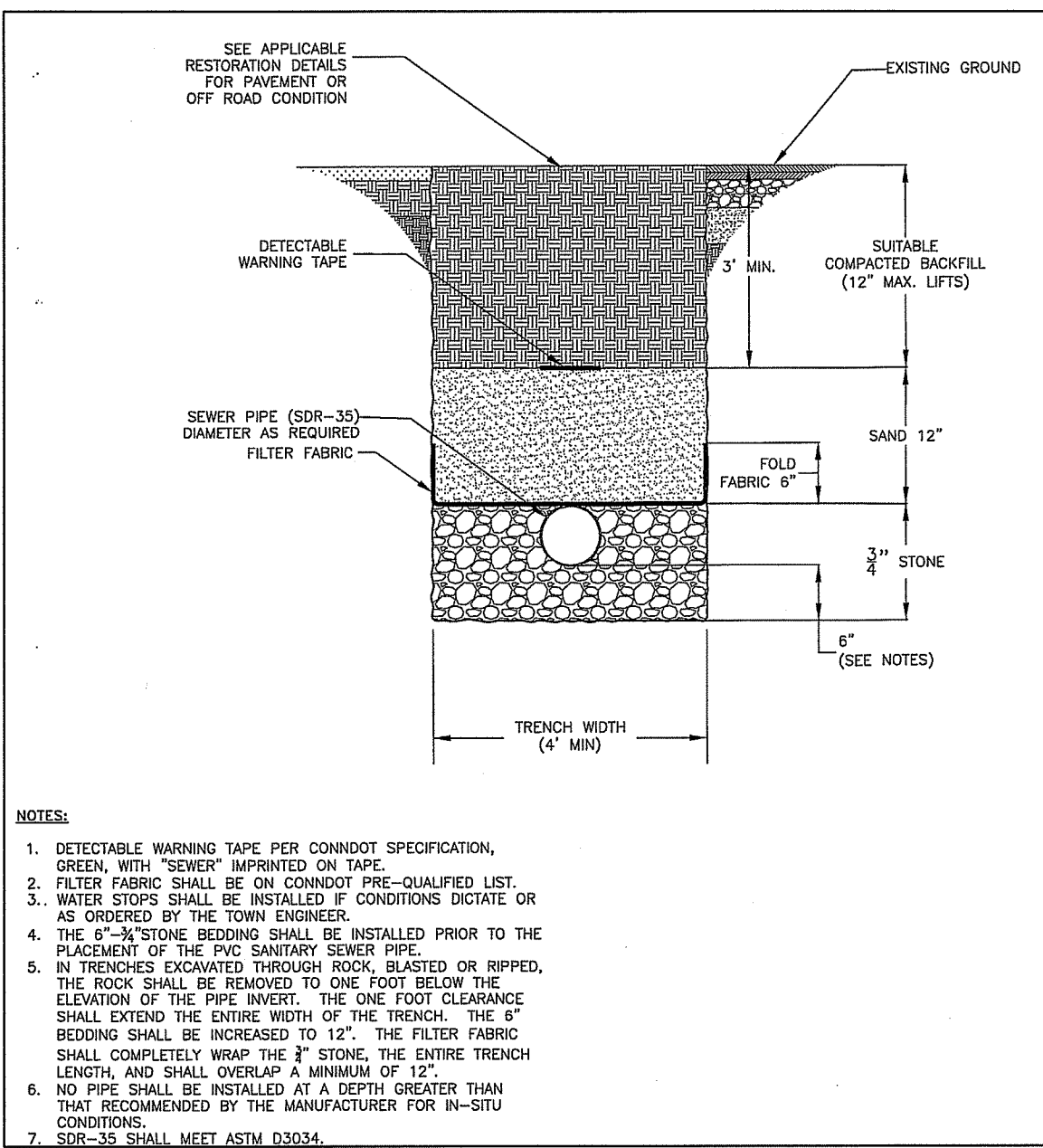


- NOTES:
1. STEEL REINFORCEMENT TO MEET OR EXCEED H-20 LOADING.
  2. WHERE PRECAST CONC. UNIT IS USED FOR SUMP THE TOP OF THE UNIT SHALL BE AT LEAST 6" BELOW THE BOTTOM OF THE PIPE OUTLET FROM THE CATCH BASIN

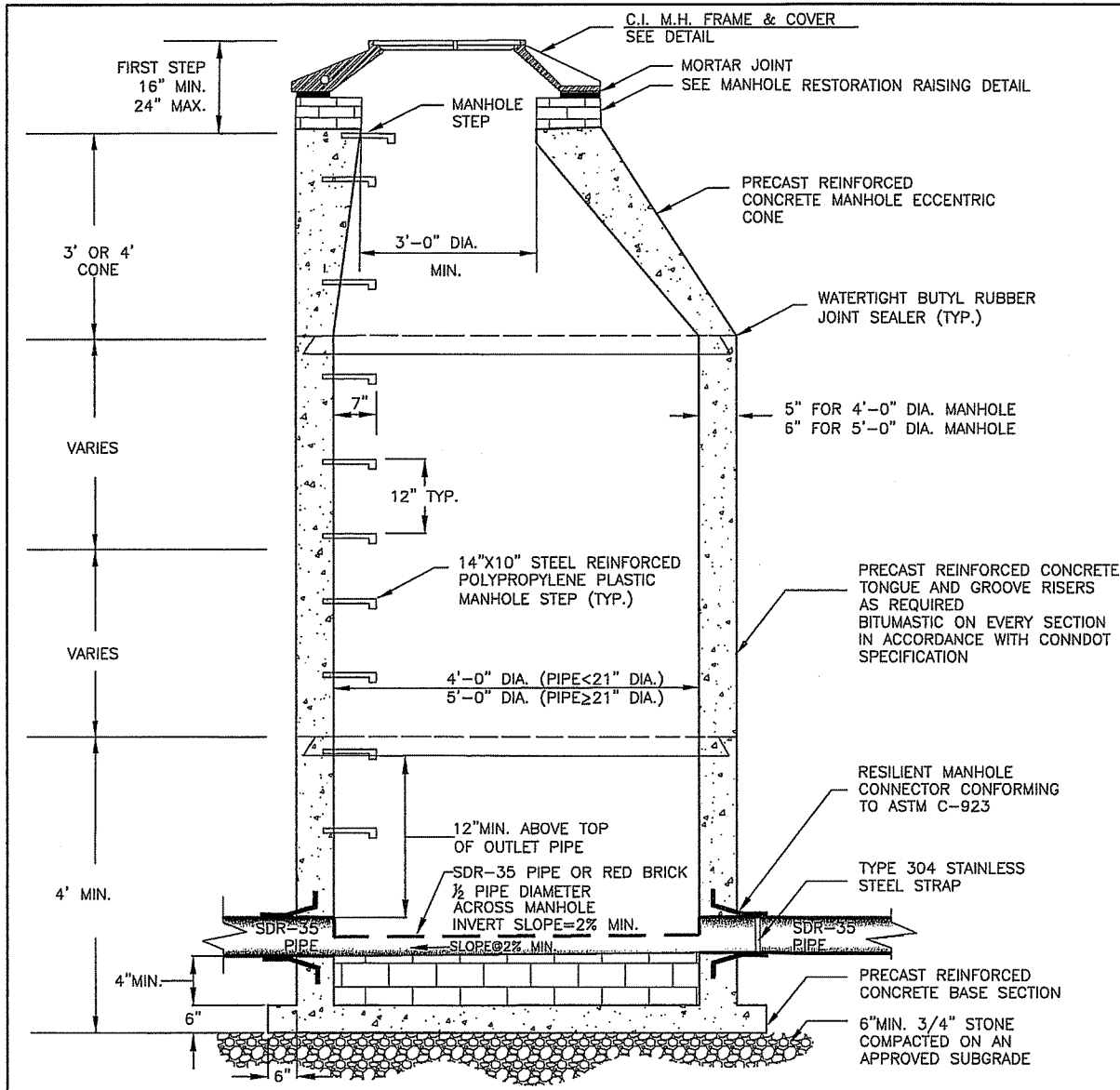
PRECAST CONCRETE CATCH BASIN DETAIL  
N. T. S.



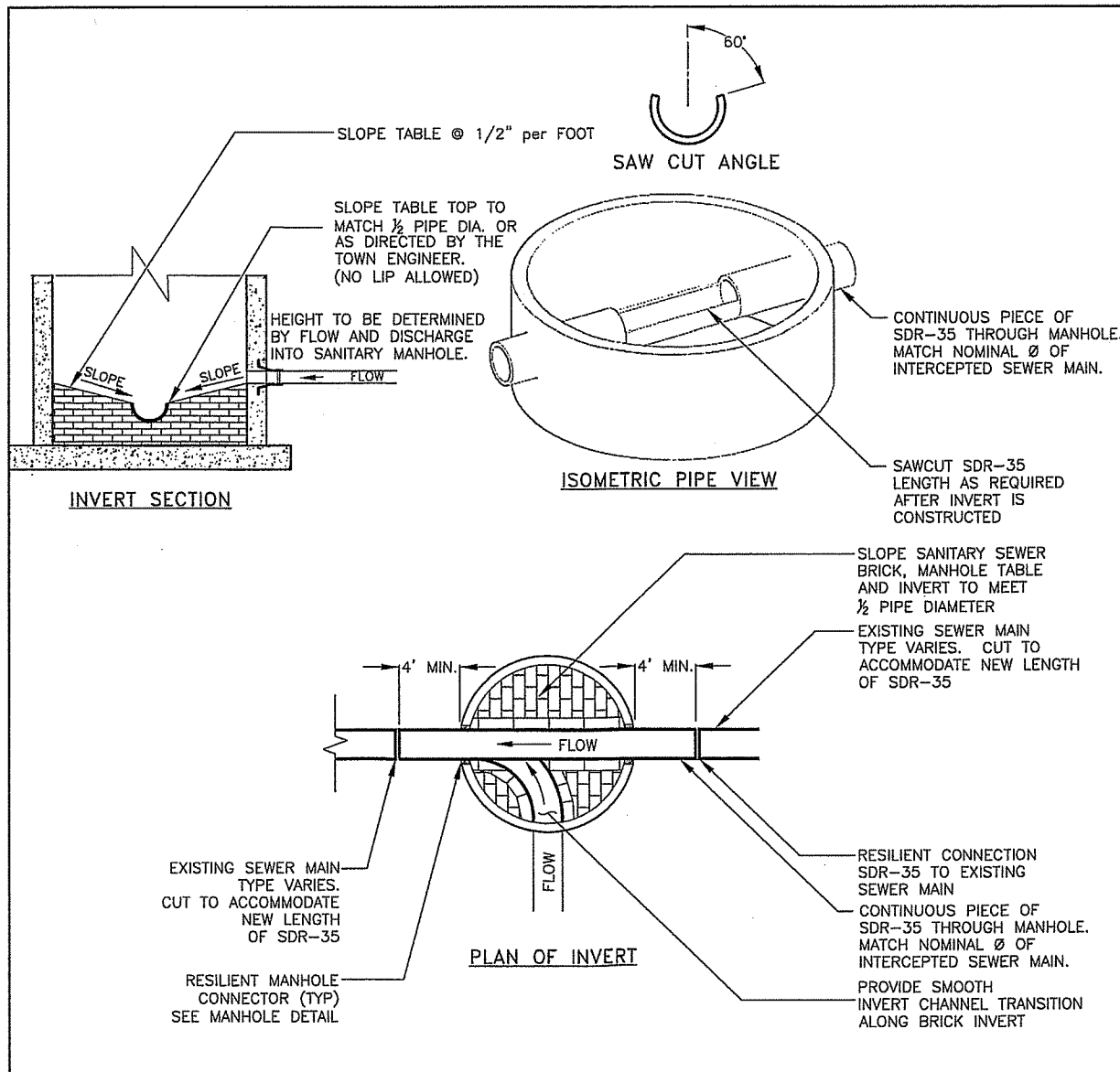
ISOLATOR ROW  
INSPECTION PORT DETAIL  
N. T. S.



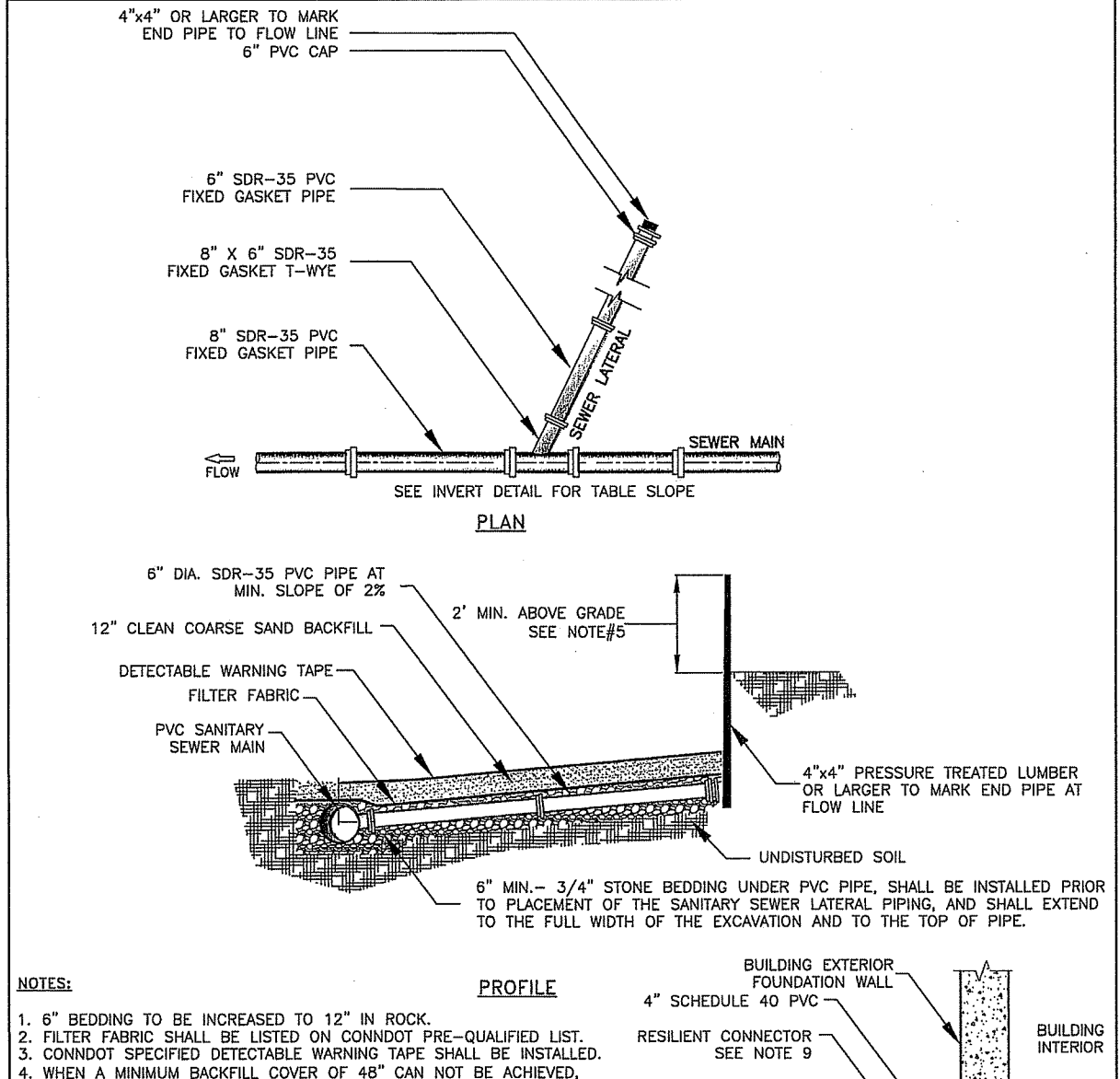
SANITARY SEWER TRENCH DETAIL



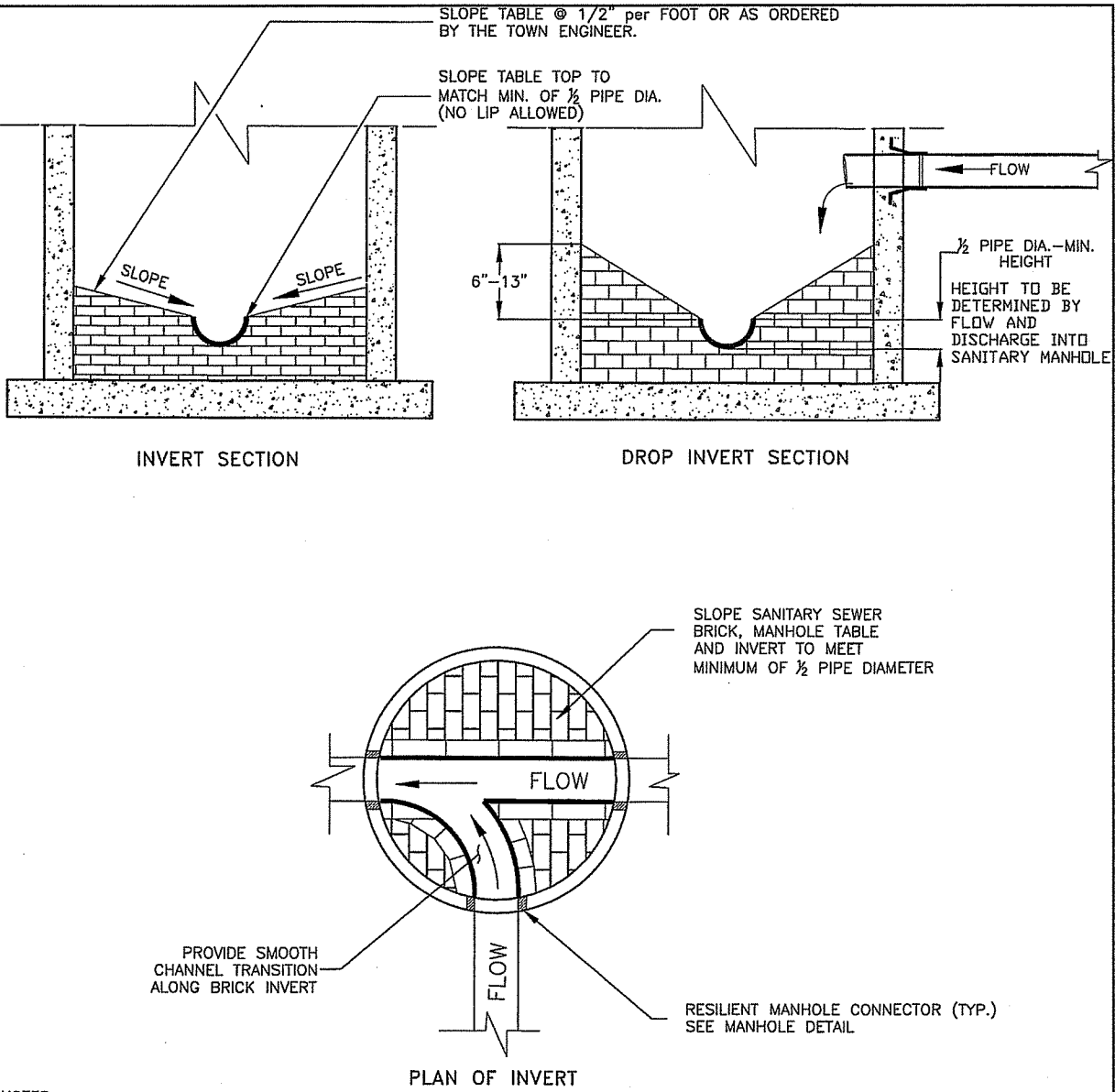
SANITARY SEWER MANHOLE DETAIL  
NOT TO SCALE



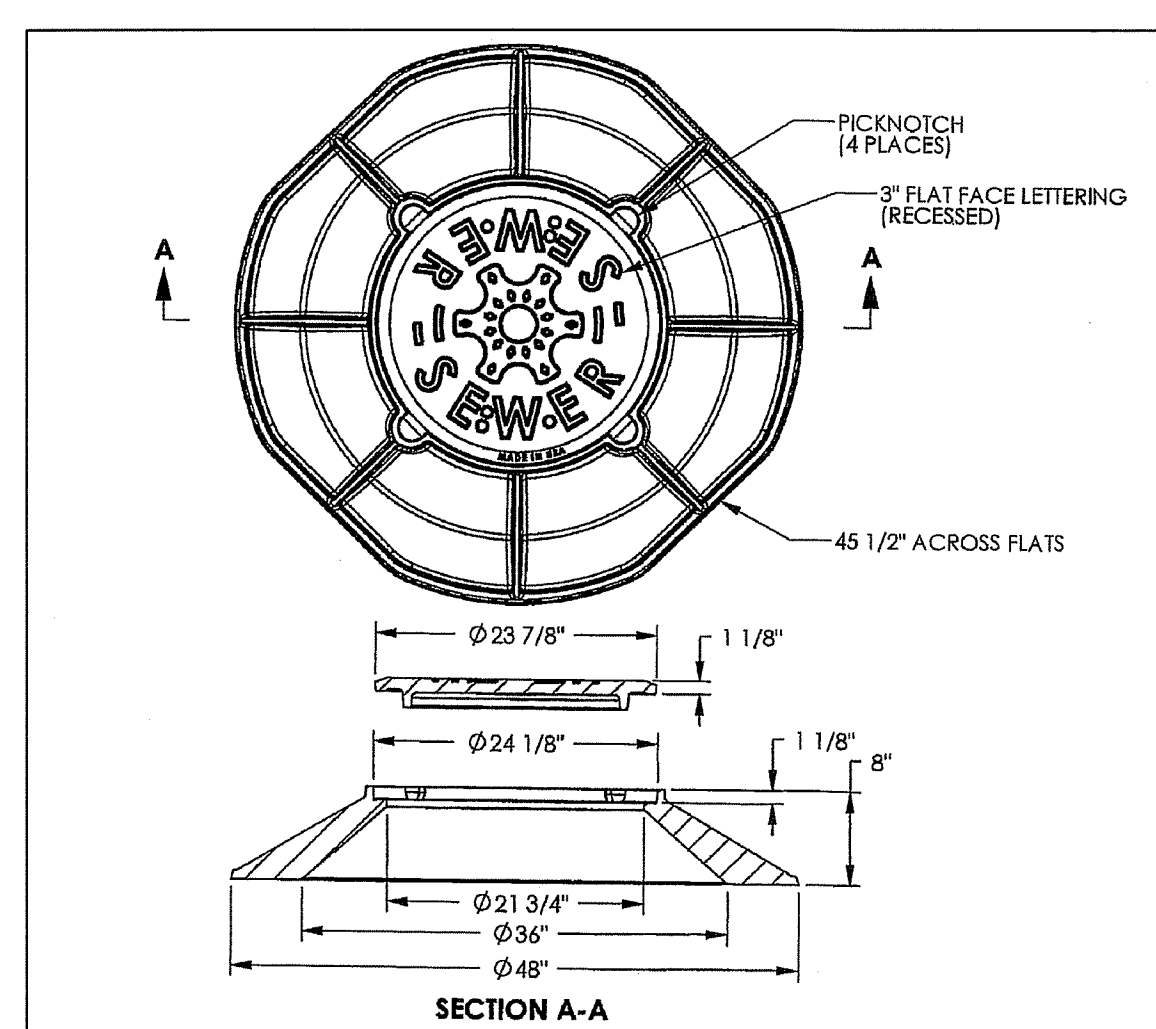
SANITARY INLINE MANHOLE CONNECTION DETAIL  
NOT TO SCALE



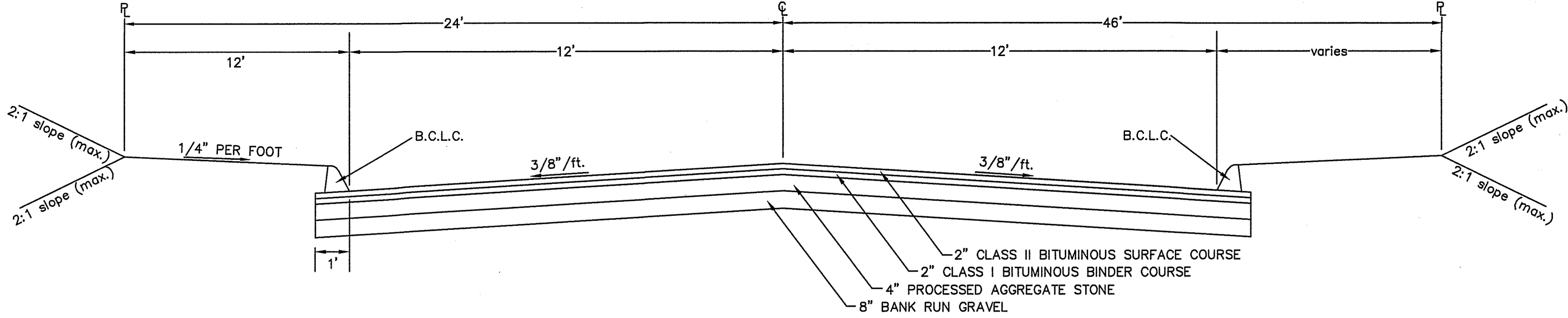
SANITARY SEWER LATERAL CONNECTION DETAIL  
NOT TO SCALE



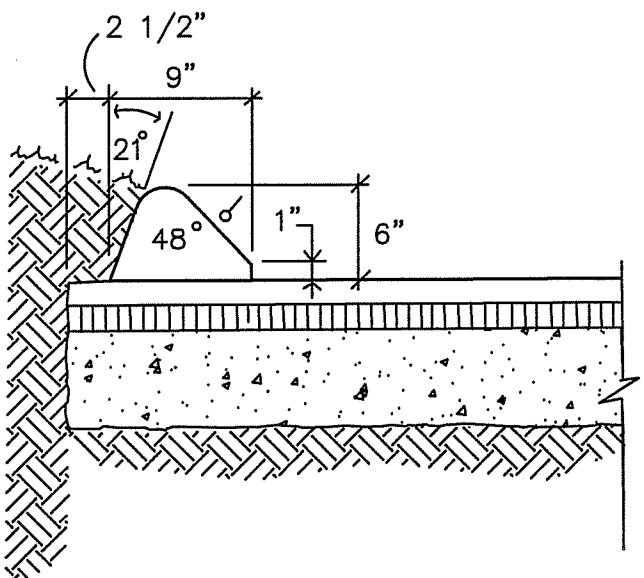
SANITARY MANHOLE INVERT DETAIL  
NOT TO SCALE



SANITARY SEWER FRAME & COVER DETAIL  
NOT TO SCALE



PUBLIC ROAD CROSS SECTION  
NOT TO SCALE



BITUMINOUS CONCRETE LIP CURBING  
NOT TO SCALE

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RESURVEY  
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DETAILS

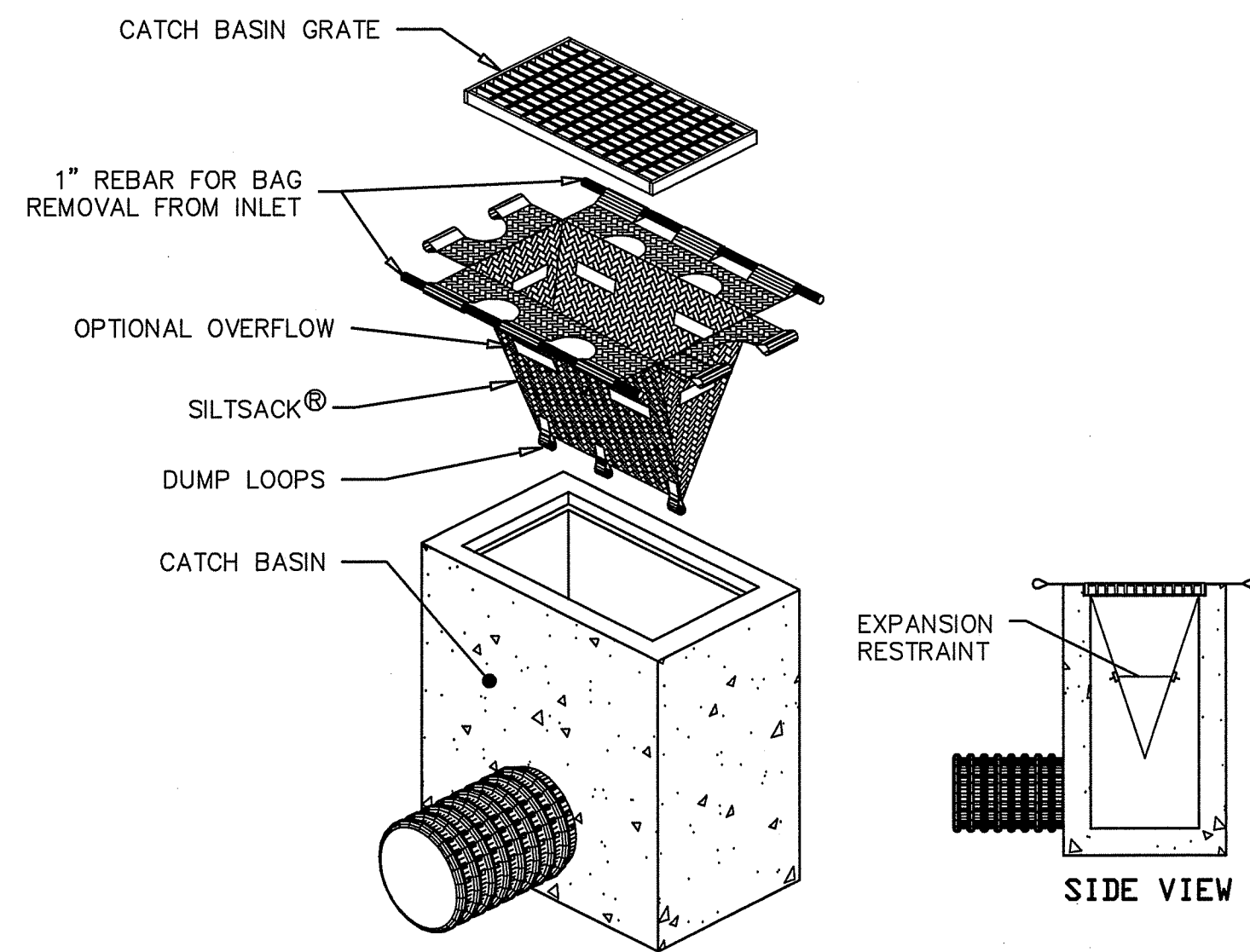
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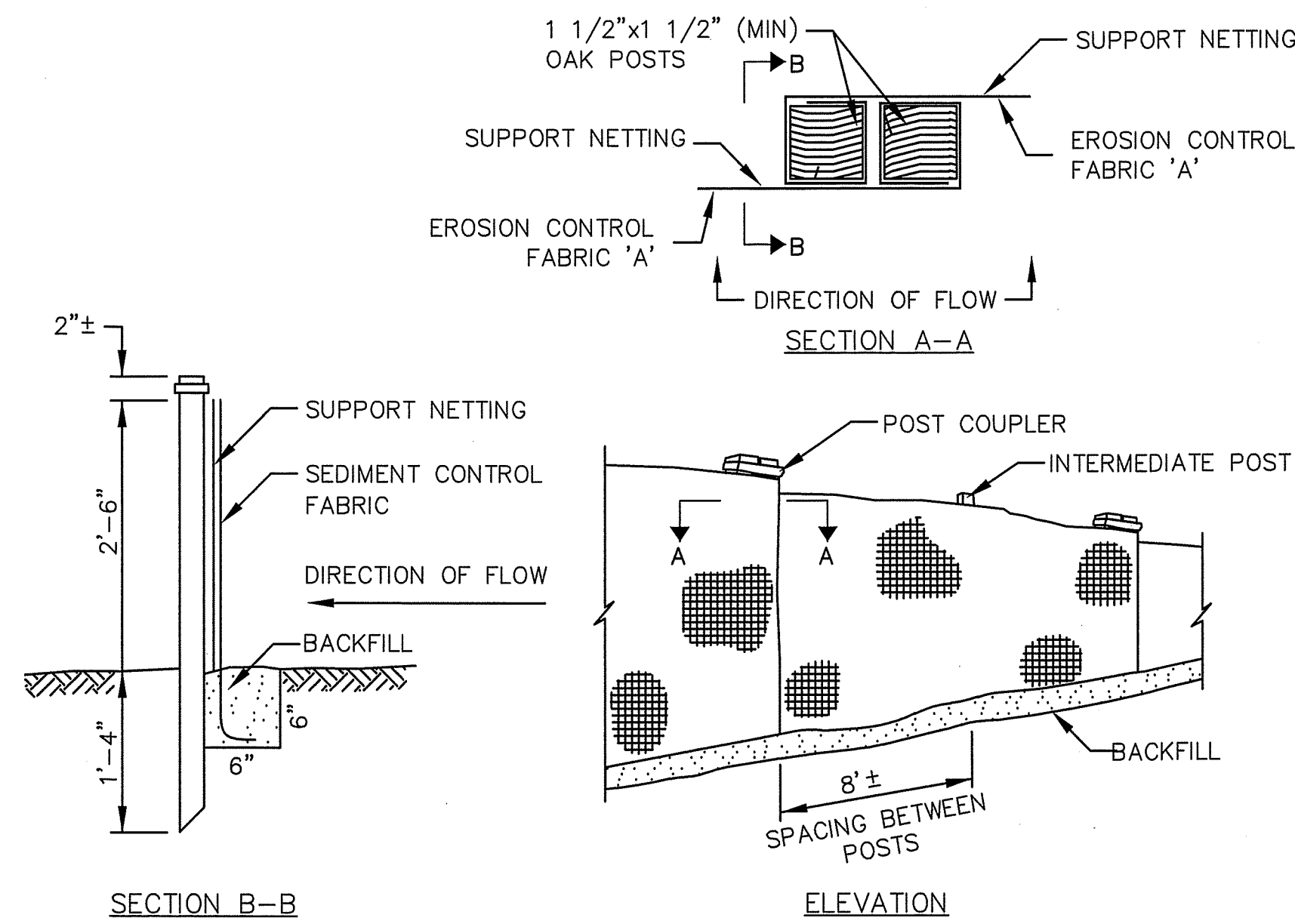
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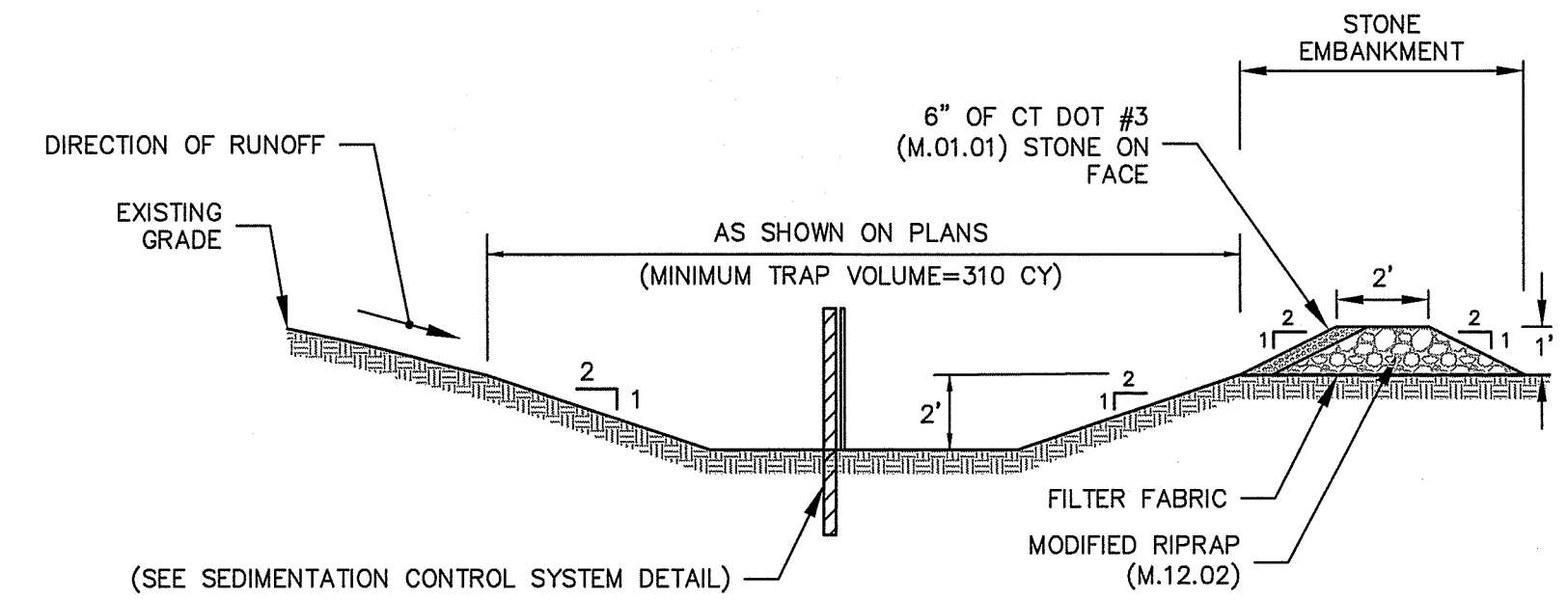




**CATCH BASIN INLET PROTECTION**  
N. T. S.

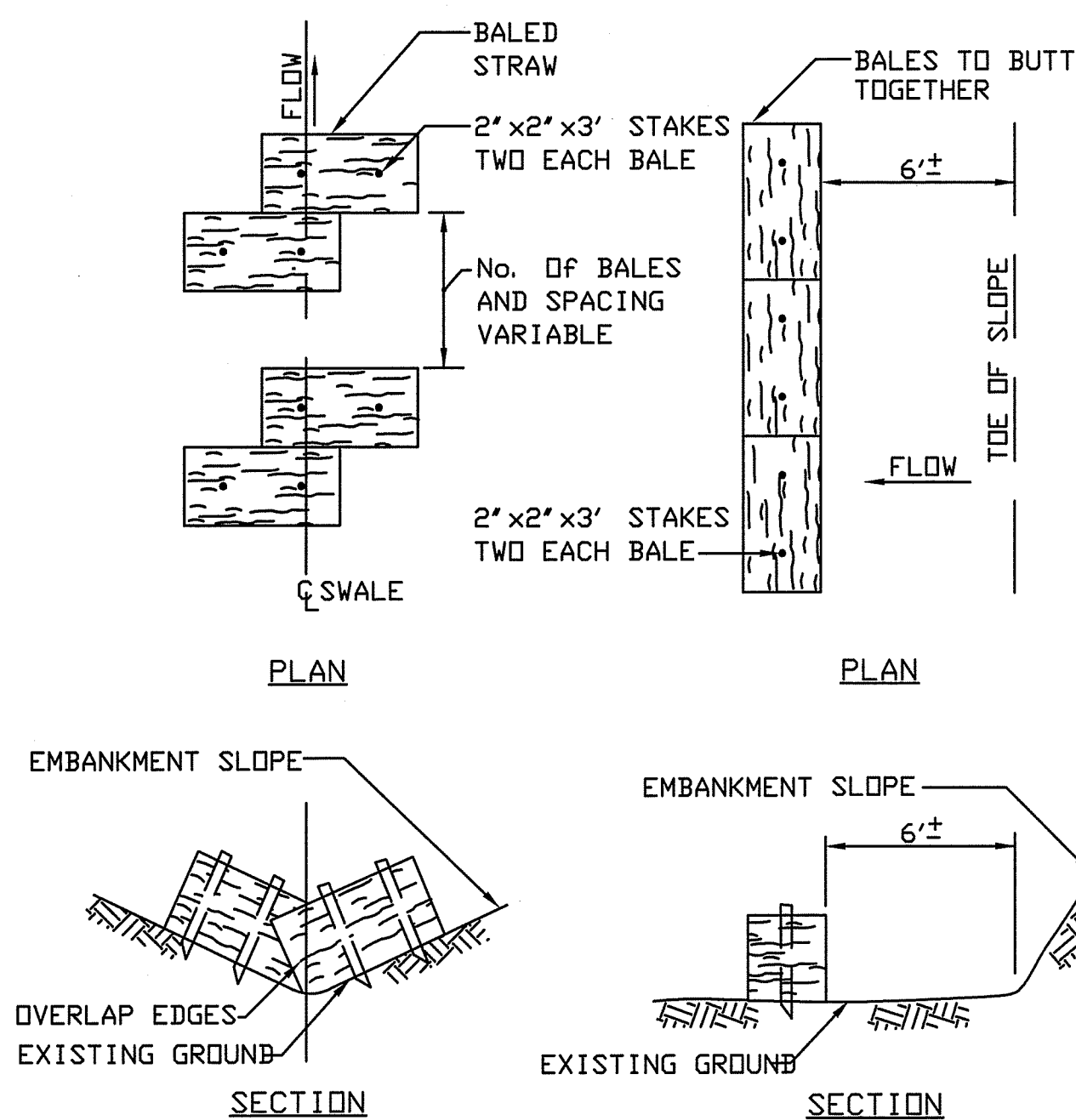


**SILT FENCE DETAIL**  
N.T.S.

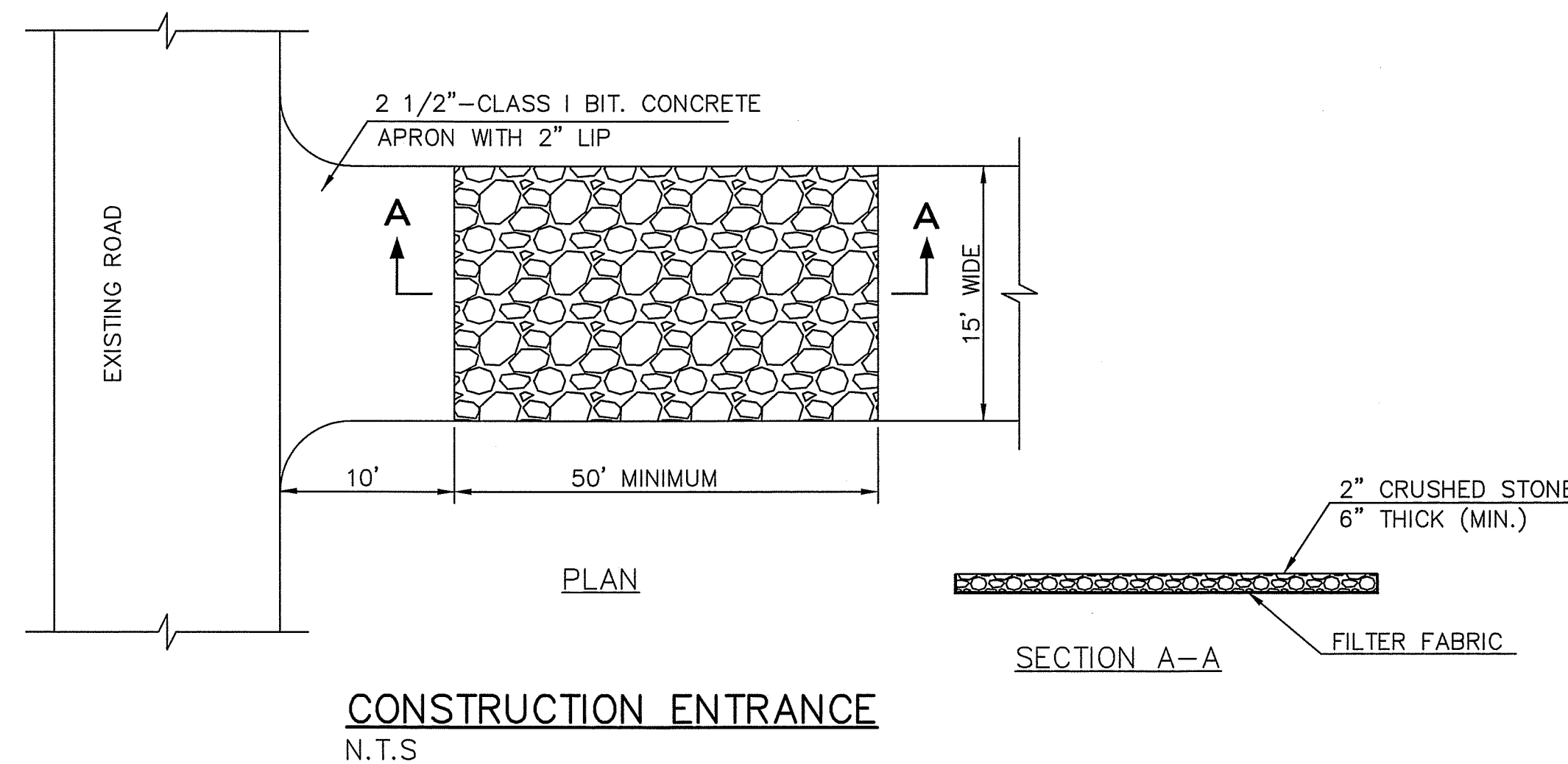


- NOTE:**
1. THE CONTRACTOR SHALL ENLARGE TRAP, AT NO ADDITIONAL COST TO THE OWNER, AS REQUIRED TO ALLOW FOR PROPER FUNCTION OF THE BASIN
  2. ALTERNATE SEDIMENTATION TRAPS MAY BE USED WITH PRIOR APPROVAL OF THE ENGINEER.
  3. TRAPS SHALL BE INSPECTED AT LEAST ONCE A WEEK AND WITHIN 24 HOURS OF THE END OF ANY STORM OF 0.5 IN OR GREATER.
  4. SEDIMENT EXCEEDING 1/2 THE DEPTH BELOW THE STONE EMBANKMENTS SHALL BE REMOVED.

**TYPICAL SEDIMENTATION TRAP DETAIL**  
N.T.S.



**STRAW BALE DETAIL**  
N. T. S.



**CONSTRUCTION ENTRANCE**  
N.T.S.

EROSION CONTROL NOTES

PROJECT DESCRIPTION

A 6 LOT RESIDENTIAL SUBDIVISION IS PROPOSED ON A 2.62± ACRE PARCEL OF LAND LOCATED AT 380 TUNXIS ROAD IN WEST HARTFORD, CONNECTICUT. IN ADDITION TO THE SIX BUILDINGS, THE PROJECT SHALL INCLUDE CONSTRUCTION OF APPROXIMATELY 380' OF ROADWAY, DRIVEWAYS, CURBING, STORMWATER MANAGEMENT SYSTEM, UTILITIES, RETAINING WALLS, LANDSCAPING, AND EROSION & SEDIMENTATION CONTROL MEASURES.

WATER EROSION CONTROL MEASURES

EROSION AND SEDIMENT CONTROL MEASURES SHALL BE INSTALLED IN ACCORDANCE WITH THIS EROSION AND SEDIMENT CONTROL PLAN AND THE CONNECTICUT GUIDELINES FOR SOIL EROSION AND SEDIMENT CONTROL (2002). THE CONTRACTOR FOR THE PROJECT SHALL MAINTAIN A COPY OF THIS EROSION AND SEDIMENT CONTROL PLAN AND THE CONNECTICUT GUIDELINES ON-SITE DURING CONSTRUCTION ACTIVITIES.

EROSION AND SEDIMENT CONTROL MEASURES SHALL CONSIST OF STRAW BALES, SILT SACK (INLET PROTECTION), WOVEN FABRIC (SILT FENCE), CONSTRUCTION ENTRANCE, TEMPORARY SEDIMENT TRAP, TEMPORARY SWALES (IF REQUIRED), AND EROSION CONTROL BLANKETS.

ALL MATERIAL SHALL BE NEW AND FREE FROM DEFECTS THAT WOULD COMPROMISE THE EFFECTIVENESS OF THE CONTROL MEASURES. AFTER COMPLETION, ALL MATERIAL SHALL BE DISPOSED OF PROPERLY. LOCATION OF EROSION AND SEDIMENT CONTROL MEASURES CAN BE SEEN ON THE PHASED EROSION AND SEDIMENT CONTROL PLANS. NOTE ALL WATER CONTROL MEASURES SHALL BE LOCATED DOWN GRADIENT FROM DISTURBED AREAS. IF TOPSOIL IS TO BE STORED IN AN AREA NOT SHOWN ON THE SITE PLAN, DUE TO UNFORESEEN EVENTS, PRIOR TO STORING, THE DOWN-GRADIENT PERIMETER OF THE STORAGE AREA SHALL BE PROPERLY PROTECTED TO THE SPECIFICATIONS DETAILED ON THIS PLAN.

WIND EROSION CONTROL MEASURES

DURING DRY WEATHER CONDITIONS, DISTURBED AREAS SHALL BE PROTECTED AGAINST WIND EROSION. DUSTY AREAS SHALL BE SPRAYED WITH WATER TO PREVENT WIND-BORNE PARTICLES.

SEEDING

ALL DISTURBED AREAS SHALL BE RESTORED – REFER TO LANDSCAPE PLANS FOR APPLICABLE SEED MIX AND SOIL AMENDMENTS.

DEWATERING

IN THE EVENT DEWATERING IS REQUIRED, THE CONTRACTOR SHALL CONSTRUCT AND MAINTAIN A DEWATERING SETTLING BASIN. THE CONTRACTOR SHALL BE RESPONSIBLE FOR EVALUATING THE REQUIRED DEWATERING RATES AND SIZING THE BASIN AS OUTLINED IN THE CONNECTICUT SOIL AND EROSION CONTROL GUIDELINES. THE DEWATERING BASINS SHALL BE LOCATED ON SITE AWAY AREAS WHERE SURFACE WATER IS DIRECTED AWAY FROM THE BASIN. DISCHARGE FROM THE BASIN SHALL BE DIRECTED AWAY FROM WETLAND AREAS AND SHALL NOT CREATE EROSION.

MAINTENANCE OF EROSION AND SEDIMENT CONTROLS

MAINTENANCE OF EROSION AND CONTROL SHALL BE COMPLETED IN ACCORDANCE WITH THE CONNECTICUT GUIDELINES FOR SOIL EROSION AND SEDIMENT CONTROL (2002). THE CONTRACTOR SHALL MAINTAIN A COPY OF THE GUIDELINES ON-SITE AND REFER TO THE APPROPRIATE MAINTENANCE PROCEDURES THAT SHALL BE UTILIZED DURING THE CONSTRUCTION. A SUMMARY OF THE MAINTENANCE REQUIREMENTS FOR THE PROJECT IS SUMMARIZED BELOW.

DURING THIS TIME ALL EROSION AND SEDIMENT STRUCTURES SHALL BE MAINTAINED IN PROPER WORKING ORDER. DISTURBED AREAS SHALL BE KEPT TO A MINIMUM AND SHALL ONLY TAKE PLACE WHERE IMMEDIATELY REQUIRED TO FURTHER CONSTRUCTION. IT IS DESIRABLE FROM AN EROSION PREVENTION CONCERN TO MINIMIZE DISTURBED AREAS. FINAL GRADING AND SEEDING SHALL TAKE PLACE AS SOON AS PRACTICAL.

A RAIN GAUGE SHALL BE PLACED AT THE PROJECT IN A WORKABLE LOCATION AND MONITORED DURING RAINFALL PERIODS UNTIL ALL DISTURBED AREAS ARE STABILIZED. IN THE EVENT THERE IS A RAINFALL GREATER THAN 1/2" IN A 12 HOUR PERIOD, ALL EROSION CONTROL MEASURES SHALL BE CHECKED AND REPAIRED AS REQUIRED WITHIN 24-HOURS OF THAT RAIN EVENT. IF NO RAIN GAUGE IS USED, ALL EROSION CONTROL MEASURES SHALL BE CHECKED AFTER ALL RAINFALL EVENTS.

CONSTRUCTION ACCESS ROAD AND ENTRANCE:

CONSTRUCTION ACCESS ROAD SHALL BE INSPECTED AT THE COMPLETION OF EACH WORKING DAY. THE ACCESS ROAD AND ENTRANCE SHALL BE REPAIRED AND/OR TOP-DRESSED WITH ADDITIONAL AGGREGATE TO ELIMINATE RUTS AND PROVIDE A STABLE SURFACE FOR ENTERING AND EXITING THE PROJECT SITE. REMOVE ALL SEDIMENT SPILLED ON THE TRACKING PAD IMMEDIATELY TO AVOID TRACKING MATERIALS INTO EXISTING STREETS. ROADS ADJACENT TO THE CONSTRUCTION SHALL BE LEFT CLEAN AT THE END OF EACH WORKING DAY.

SILT FENCE AND STRAW BALES:

THESE FACILITIES SHALL BE INSPECTED A MINIMUM OF ONCE PER WEEK OR AS REQUIRED ABOVE, BASED ON RAINFALL AT THE PROJECT SITE. REPAIRS AND MAINTENANCE SHALL BE COMPLETED AS NEEDED TO MAINTAIN THE FACILITIES IN PROPER WORKING ORDER. ADDITIONAL SILT FENCE AND STRAW BALES SHALL BE ADDED AS NEEDED DURING THE PROJECT TO REPLACE FAILED SYSTEMS OR LIMIT OTHER AREAS OF EROSION ON THE SITE.

TEMPORARY BERMS/SWALES (AS NEEDED):

THE SWALE SHALL BE INSPECTED A MINIMUM OF ONCE PER WEEK OR AS REQUIRED ABOVE, BASED ON RAINFALL AT THE PROJECT SITE. REPAIRS AND MAINTENANCE SHALL BE COMPLETED AS NEEDED TO MAINTAIN THE FACILITIES IN PROPER WORKING ORDER. THE SWALE SHALL BE CLEANED AS REQUIRED AND ADDITIONAL STONE PROVIDE IN THE SWALE AS NEEDED.

TEMPORARY SEDIMENTATION TRAP:

THE SEDIMENTATION TRAP SHALL BE INSPECTED A MINIMUM OF ONCE PER WEEK OR AS REQUIRED ABOVE, BASED ON RAINFALL AT THE PROJECT SITE. REPAIRS AND MAINTENANCE SHALL BE COMPLETED AS NEEDED TO MAINTAIN THE FACILITY IN PROPER WORKING ORDER. THE SEDIMENTATION TRAP SHALL BE CLEANED WITH THE SEDIMENT ACCUMULATED EXCEEDS ONE HALF OF THE STORAGE CAPACITY OR WHEN THE DEPTH OF THE AVAILABLE WATER IS REDUCED TO LESS THAN 18-INCHES. THE CONTRACTOR SHALL INSTALL A MARKER STAKE IN 2 LOCATIONS WITHIN THE SEDIMENTATION TRAP FOR THE PURPOSE OF TRACKING SEDIMENT LEVELS WITHIN THE TRAP. DURING REMOVAL OF THE SEDIMENT THE CONTRACTOR SHALL FOLLOW ALL PROCEDURES OUTLINED IN THE CONNECTICUT GUIDELINES FOR SOIL AND EROSION CONTROL (2002). EXCAVATED SEDIMENTS SHALL BE STAGED AND SURROUNDED WITH STRAW BALES IN A MANNER SIMILAR TO STAGING FOR STOCKPILES.

A CHECK LIST (PROVIDED BY THE ENGINEER) SHALL BE FILLED OUT BY THE CONTRACTOR EVERY WEEK OR AFTER EACH RAINFALL EVENT OF 1/2" OR GREATER AS NOTED ABOVE.

GENERAL NOTES

ALL DISTURBED AREAS SHALL BE KEPT TO A MINIMUM. FINAL GRADING AND RESTORATION SHALL BE ACCOMPLISHED AS SOON AS PRACTICAL.

EROSION AND SEDIMENT CONTROL STRUCTURES SHALL BE INSTALLED PRIOR TO SITE WORK. IF IT IS NOT POSSIBLE TO DO SO, THE ENGINEER SHALL BE NOTIFIED IN ORDER TO MAINTAIN THE INTEGRITY OF DESIGN.

ALL CONTROL STRUCTURES SHALL BE MAINTAINED THROUGHOUT CONSTRUCTION AND REMOVED WHEN STABILIZATION HAS BEEN ATTAINED. IF THE PROPOSED CONTROL MEASURES ARE NOT SATISFACTORY, ADDITIONAL CONTROL MEASURES SHALL BE TAKEN.

ALL RUNOFF FROM THE DISTURBED AREA SHALL BE CONTROLLED AND FILTERED. NON-WOVEN SYNTHETIC FIBER FILTER FABRIC, STRAW BALES OR SILTATION FENCE SHALL BE USED IN THE AREAS SHOWN ON THE SITE PLAN AND INSTALLED AS SHOWN ON THIS PLAN.

A CT DEEP GENERAL PERMIT FOR THE DISCHARGE OF STORMWATER AND DEWATERING WASTEWATERS FROM CONSTRUCTION ACTIVITIES WILL BE REQUIRED FOR THE PROPOSED PROJECT UNLESS IT MEETS THE CT DEEP CRITERIA AS A LOCALLY APPROVED PROJECT.

THE CONTRACTOR MUST OBTAIN COPIES OF THE ZONING, WETLANDS AND CTDEP STORMWATER PERMITS PRIOR TO THE START OF WORK.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR IMPLEMENTATION OF SEDIMENT AND EROSION CONTROL MEASURES. THIS RESPONSIBILITY INCLUDES THE ACQUISITION OF MATERIALS, INSTALLATION, AND MAINTENANCE OF EROSION AND SEDIMENT STRUCTURES, THE COMMUNICATION AND DETAILED EXPLANATION TO ALL PEOPLE INVOLVED IN THE SITE WORK OF THE REQUIREMENTS AND OBJECTIVE OF THE EROSION AND SEDIMENT CONTROL MEASURES.

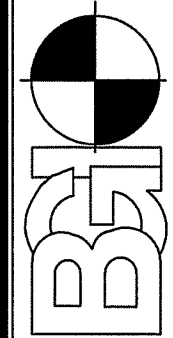
TWO (2) WEEKS PRIOR TO THE START OF WORK THE CONTRACTOR SHALL PROVIDE THE NAME AND PHONE NUMBER OF THE INDIVIDUAL RESPONSIBLE FOR IMPLEMENTATION OF THIS PLAN.

IN THE EVENT THE APPLICANT IS NOT OWNER OF THE PROPERTY, THE CURRENT OWNER SHALL HAVE ALL THE RESPONSIBILITIES LISTED IN THIS PARAGRAPH AND SHALL SUBMIT A WORKING PHONE NUMBER FOR CONTACT AT TIME OF APPLICATION FOR PERMITS. ANY CHANGE IN ENGINEER SHALL BE NOTED AT THIS TIME.

THE ENGINEER, WESTON & SAMPSON ENGINEERS, INC. (860-513-1473) #273 DIVIDEND ROAD, ROCKY HILL, CT, 06067 SHALL BE NOTIFIED OF ANY PROPOSED ALTERATION TO THE EROSION AND SEDIMENT CONTROL PLAN, PRIOR TO ALTERING, IN ORDER TO ENSURE THE FEASIBILITY OF THE ADDITION, SUBTRACTION, OR CHANGE IN THE PLAN.

SEQUENCE FOR CONSTRUCTION, APPLICATION OF SOIL EROSION AND SEDIMENTATION CONTROL MEASURES, AND FINAL STABILIZATION OF THE PROJECT SITE

1. CLEARLY DEFINE AND FLAG THE PROPERTY LIMITS OF AND LIMITS OF CONSTRUCTION.
2. HOLD PRE-CONSTRUCTION MEETING (REMEMBER TO CALL BEFORE YOU DIG 1-800-922-4455)
3. HOLD A TREE-CUTTING MEETING.
4. INSTALL PERIMETER EROSION AND SEDIMENTATION CONTROLS IN ACCORDANCE WITH THE EROSION CONTROL PLAN.
5. CUT TREES WITHIN THE GRADING LIMITS AND REMOVE CUT WOOD. CHIP BRUSH AND REMOVE OFFSITE.
6. EXCAVATE ALL STUMPS LOCATED IN THE STRUCTURAL AREAS AND REMOVE TO A DISPOSAL SITE OR STOCKPILE AREA TO BE CHIPPED.
7. STRIP ALL TOPSOIL THAT IS WITHIN THE GRADING LIMITS. STOCKPILE ALL TOPSOIL AS SHOWN ON PLANS AND SECURE WITH EROSION AND SEDIMENT CONTROLS.
8. EXCAVATE AND CONSTRUCT FOUNDATION OF BUILDINGS WITH APPROPRIATE STUBS/OPENINGS FOR UTILITIES. UPON COMPLETION BACKFILL FOUNDATION WALLS.
9. EXCAVATE AND CONSTRUCT RETAINING WALL(S). UPON COMPLETION, BACKFILL WALLS.
10. CUT OR FILL REMAINDER OF SITE TO ESTABLISH THE SUB-GRADE.
11. INSTALL DRAINAGE FACILITIES STARTING AT THE OUTFALL AND PROCEEDING UPGRADE.
12. INSTALL REMAINING UTILITIES.
13. CONNECT UTILITY SERVICE LATERALS TO BUILDINGS.
14. PLACE, GRADE AND COMPACT THE PROCESSED AGGREGATE IN THE PARKING AND DRIVEWAY BASE.
15. APPLY STABILIZATION MEASURES (TOPSOIL, SEEDING, ETC.) TO REMAINING DISTURBED AREAS IN ACCORDANCE WITH THE EROSION AND SEDIMENT CONTROL DETAILS.
16. INSPECT AND CLEAN DRAINAGE SYSTEMS AS NEEDED.
17. TOPSOIL AND GRADE WHERE REQUIRED AND WITHIN 2 FEET OF PROPOSED CURBING.
18. INSTALL FIRST COURSE OF BITUMINOUS CONCRETE PAVEMENT.
19. INSTALL CURBING AS SHOWN ON PLANS.
20. FINE GRADE, RAKE, SEED, AND MULCH.
21. UPON SUBSTANTIAL COMPLETION OF THE BUILDING, COMPLETE THE BALANCE OF SITE WORK AND STABILIZATION OF ALL OTHER DISTURBED AREAS.
22. WHEN ALL OTHER WORK HAS BEEN COMPLETED, REPAIR AND SWEEP ALL PAVED AREAS FOR FINAL COURSE OF PAVING. INSPECT DRAINAGE SYSTEM AND CLEAN AS NEEDED.
23. INSTALL FINAL COURSE OF BITUMINOUS CONCRETE PAVEMENT.
24. AFTER ENTIRE SITE IS STABILIZED IN ACCORDANCE WITH THE APPLICABLE EROSION AND SEDIMENT CONTROL MEASURES, REMOVE TEMPORARY EROSION AND SEDIMENT CONTROLS (E.G. SILT FENCES).



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Newington, Conn. 06111  
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FAX (860) 666-3830

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RESURVEY  
PREPARED FOR

ORCHARD HEIGHTS DEVELOPERS LLC  
380 TUNXIS ROAD  
WEST HARTFORD, CONNECTICUT

EROSION  
&  
SEDIMENT  
CONTROL  
NOTES

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